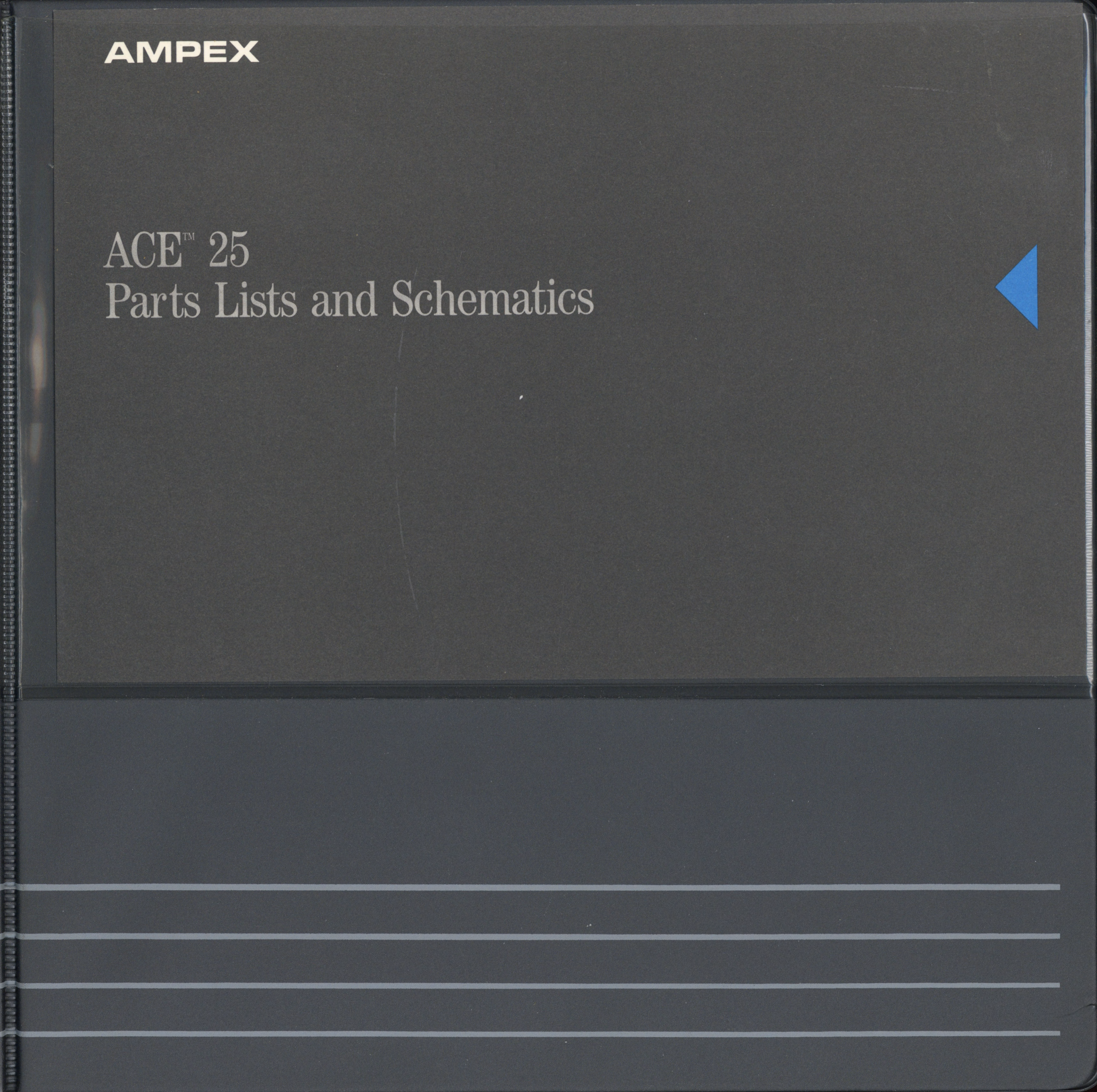


AMPEX

ACE™ 25  
Parts Lists and Schematics





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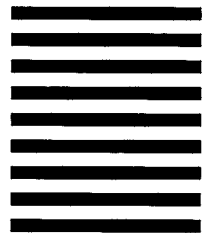
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**Computerized Editing System**



**Parts Lists and Schematics**

Catalog No. 1520500-02  
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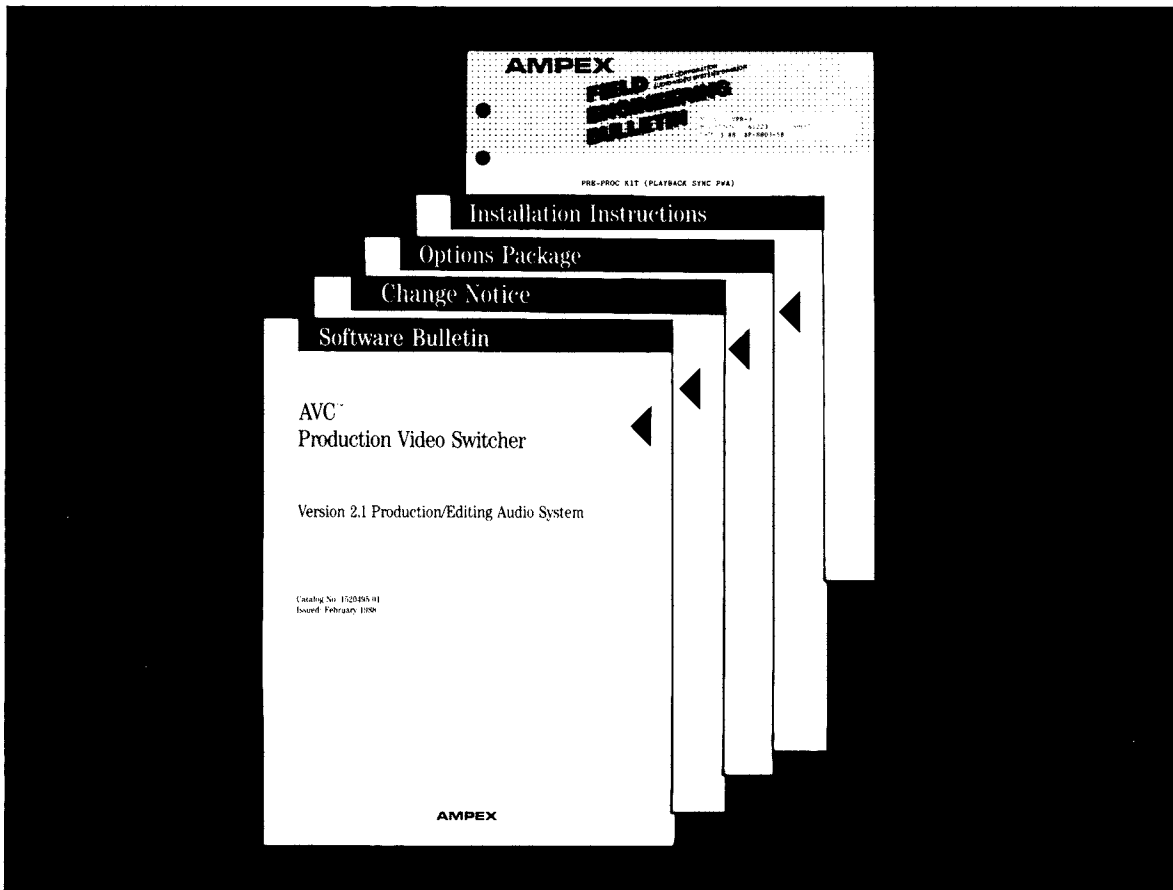
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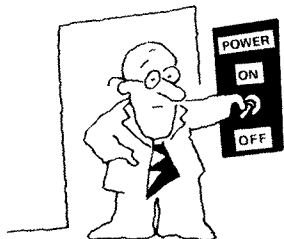
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# Safety and First Aid Suggestions

Regardless of how well electrical equipment is designed, personnel can be exposed to **dangerous electrical shock** when protective covers are removed for maintenance or other activities. Therefore, it is incumbent on the user to see that all safety regulations are consistently observed and that each individual assigned to the equipment has a clear understanding of the first aid related to electrical hazards.

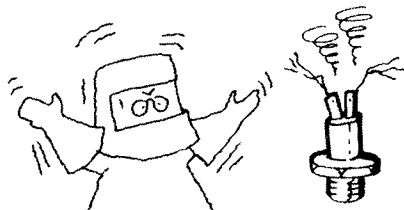
In addition, the following safety practices must be followed:



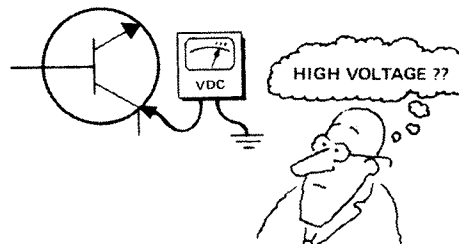
Do not attempt to adjust unprotected circuit controls or to dress leads with power **on**.



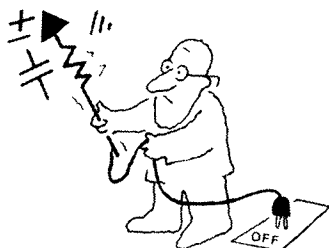
Always avoid placing parts of the body in series between ground and circuit points



To avoid burns, do not touch heavily loaded or overheated components without precaution.



Remember that some semiconductor cases and solid-state circuits carry high voltages.



Do not assume that all danger of electrical shock is removed when power is **off**. Charged capacitors can retain dangerous voltages for a long time after power is turned off. These capacitors should be discharged through a suitable resistor before any circuit points are touched.



Don't take chances. Be fully trained. Ampex equipment should be operated and maintained by fully qualified personnel.

If someone seems unable to free himself while receiving an electrical shock, **turn power off** before rendering aid. Muscular spasm or unconsciousness can make a victim unable to free himself from the electrical power.

## WARNING

**DO NOT TOUCH VICTIM OR HIS CLOTHING BEFORE POWER IS DISCONNECTED OR YOU CAN ALSO BECOME A SHOCK VICTIM.**

If power cannot be turned off immediately, **very carefully** loop a length of dry nonconducting material (such as rope, insulating material, or clothing) around the victim and pull him free of the power. Carefully avoid touching him or his clothing until free of power. Immediately start the appropriate first aid procedures.



# Good Practices

In maintaining the equipment covered in this manual, please keep in mind the following, standard good practices:

When connecting any instrument (oscilloscope, waveform, monitor, etc.) to a high-frequency output, use the appropriate termination resistor at the input of the instrument, unless the instrument is terminally internally.



When inserting or removing printed wiring assemblies (PWAs), cable connectors, or fuses, always turn off power to the affected portion of the equipment. After power is removed, allow sufficient time for the power supplies to bleed down before reinserting PWAs.



When troubleshooting, remember that FETs and other metal-oxide semiconductor (MOS) devices may appear defective because of leakage between traces or component leads on the printed wiring board. Clean the printed wiring board and recheck the MOS device before assuming it is defective.



When replacing MOS devices, follow standard practices to avoid damage caused by static charges and soldering.



When removing components from PWAs (particularly ICs), use care to avoid damaging PWA traces.



# Warning

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case, the user, at his own expense, will be required to take whatever measures may be necessary to correct the interference.



## Note

This system was tested using the shielded interconnect cables provided with the unit. Failure to use the cables provided may result in radio interference outside acceptable limits.



## Notice

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.



Cet appareil digital n'excède pas aux normes classe A pour bruits radioélectriques des appareils digitaux dans le Règlement sur le Brouillage Radioélectriques du Bureau de Communications du Canada





## INTRODUCTION

This manual contains parts lists and schematics for the ACE 25 Computerized Editing System, Ampex Assembly No. 1431700.

- **Indented List of Assemblies** - List of assemblies in sequence of appearance in the manual.
- **Numerical List of Assemblies** - List of assemblies in numeric sequence.
- **Numerical List of Schematics** - List of schematics in numeric sequence.

## RELATED DOCUMENTS

1520498      Operation Manual

**NOTE:** This issue of the manual reflects the documentation as of 16 December 1988.

## INDENTURED LIST OF ASSEMBLIES

1 2 3 4 5 6 7	TITLE	ASSEMBLY NO.	PAGE NO.
<b>1 SYSTEM</b>			
	Computerized Editing System, ACE 25.....	1431700	1-1
<b>2 EDIT CONTROLLER</b>			
	Edit Controller Assembly.....	1430873	2-1
	Regulator PWA .....	1431446	2-3
	Color Field 1 Detector PWA.....	1431454	2-7
	I/O PWA .....	1431457	2-16
	8 Channel ILC PWA.....	1431025	2-22
	DC Fan Assembly.....	1431721	2-33
	AC Harness Assembly .....	1430879	2-34
	Power Supply/Regulator Harness Assembly .....	1431718	2-35
	Regulator/PC Motherboard Power Cable Assembly.....	1431720	2-36
	Disk Drive Power Harness Assembly .....	1431722	2-37
	Printer Cable Assembly.....	1431592	2-38
	GPI Cable Assembly.....	1431593	2-39
	RS232 Cable Assembly.....	1431630	2-40
	Computer Monitor Cable Assembly.....	1430997	2-41
	Serial Communications Cable Assembly .....	1430998	2-42
	Disk Drive Cable Assembly .....	1431728	2-43
	Input/Output Regulator Cable Assembly .....	1430960	2-44
	Door Assembly.....	1430636	2-45
	Reset Switch Cable Assembly .....	1431289	2-46
	Diagnostic Port Cable Assembly.....	1430992	2-47
	Power Supply (See page A-1) .....	1431581	
<b>3 KITS</b>			
<b>Component Switcher Interface</b>			
	Component Switcher Interface Kit.....	1430874	3-1
	Dumpster Bus Interface PWA .....	1430956	3-2
	SPU Extender PWA.....	1445919	3-9
	ACE 25 Backplane PWA .....	1445916	3-15
	Regulator-Backplane Power Cable Assembly.....	1431719	3-23
	Dumpster-Backplane Cable Assembly.....	1431726	3-24
<b>Component Video Switcher Kit</b>			
	Component Video Switcher Kit.....	1431589	3-25
	Component Video Switcher 1 PWA.....	1445928	3-27
	Video Timing Reference PWA .....	1445955	3-51
	Buffer Reference Cable Assembly .....	1431587	3-59
	Color Field/Switcher Cable Assembly .....	1430931	3-60



## INDENTURED LIST OF ASSEMBLIES

1 2 3 4 5 6 7	ASSEMBLY NO.	PAGE NO.
<b>Composite Video Switcher Kit</b>		
Composite Video Switcher Kit.....	1431633	3-61
Composite Switcher 1 PWA .....	1433400	3-62
Reference Video Timing PWA .....	1443382	3-81
Color Field-Switcher Cable Assembly (See page 3-60).....	1430931	
Buffer Reference Cable Assembly (See page 3-59).....	1431587	
<b>Composite Switcher Interface Kit</b>		
Composite Switcher Interface Kit.....	1431267	3-91
Dumpster Bus Interface PWA (See page 3-2) .....	1430956	
SPU Extender PWA (See page 3-9).....	1445919	
ACE 25 Backplane PWA (See page 3-15).....	1445916	
Regulator-Backplane Power Cable Assembly (See page 3-23) .....	1431719	
Dumpster-Backplane Cable Assembly (See page 3-24) .....	1431726	
<b>Audio Switcher Kit</b>		
Audio Switcher Kit.....	1431590	3-93
Audio Switcher PWA .....	1445924	3-94
<b>Table Top Monitor Kit</b>		
Table Top Monitor Kit.....	1430588	3-115
<b>Rack Mount Monitor Kit</b>		
Rack Mount Monitor Kit.....	1431588	3-117
<b>4 MISCELLANEOUS</b>		
Miscellaneous Parts Kit.....	1430875	4-1
Monitor Extension Cable Assembly .....	1430925	4-2
Composite 5 Meter Cable, Option 1 .....	1431626	4-3
Composite 10 Meter Cable, Option 2 .....	1431627	4-4
Component 5 Meter; Cable, Option 3 .....	1431628	4-5
Component 10 Meter Cable, Option 4.....	1431629	4-6
Coaxial Cable Assembly.....	1431006	4-7
Serial Control Cable Assembly.....	1431018	4-8
XLR Audio Cable Assembly.....	1431019	4-9
Dumpster-Video Timing Cable Assembly.....	1431727	4-10

## APPENDIX A

Ppower Supply (Condor Inc.).....	SDM200E	A-1
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## INDENTURED LIST OF ASSEMBLIES

TITLE							ASSEMBLY NO.	PAGE NO.
1	2	3	4	5	6	7		
APPENDIX B								
Motherboard PWA (Everex Systems).....							EV1800-B	B-1
APPENDIX C								
Keyboard (Key Tronics Corp).....							E03503051	C-1
APPENDIX D								
Floppy Drive Controller PWA (Western Digital Corp.).....							WD1002A-FOX	D-1

## NUMERICAL LIST OF ASSEMBLIES

ASSEMBLY NO.	REV	TITLE	PAGE NO.
1430588	A	Table Top Monitor.....	3-11
1430636	C	Door Assembly.....	2-45
1430873	D	Edit Controller Assembly.....	2-1
1430874	B	Component Switcher Interface Kit.....	3-1
1430875	B	Miscellaneous Parts Kit.....	4-1
1430879	E	AC Harness Assembly.....	2-34
1430925	A	Monitor Extension Cable Assembly.....	4-2
1430931	A	Color Field/Switcher Cable Assembly.....	3-60
1430956	F	Dumpster Bus Interface PWA.....	3-2
1430960	A	Input/Output Regulator Cable Assembly.....	2-44
1430992	B	Diagnostic Port Cable Assembly.....	2-47
1430997	A	Computer Monitor Cable Assembly.....	2-41
1430998	A	Serial Communications Cable Assembly.....	2-42
1431006	A	Coaxial Cable Assembly.....	4-7
1431018	A	Serial Control Cable Assembly.....	4-8
1431019	A	XLR Audio Cable Assembly.....	4-9
1431025	D	8 Channel ILC PWA.....	2-22
1431289	A	Reset Switch Cable Assembly.....	2-46
1431446	B	Regulator PWA.....	2-3
1431454	D	Color Field 1 Detector PWA.....	2-7
1431457	C	I/O PWA.....	2-16
1431587	B	Buffer Reference Cable Assembly.....	3-59
1431588	B	Rack Mount Monitor Kit.....	3-117
1431589	B	Component Video Switcher Kit.....	3-25
1431590	A	Audio Switcher Kit.....	3-93
1431592	C	Printer Cable Assembly.....	2-38
1431593	C	GPI Cable Assembly.....	2-39
1431626	A	Composite 5 Meter Cable, Option 1.....	4-3
1431627	A	Composite 10 Meter Cable, Option 2.....	4-4
1431628	A	Component 5 Meter Cable, Option 3.....	4-5
1431629	A	Component 10 Meter Cable, Option 4.....	4-6
1431630	C	RS232 Cable Assembly.....	2-40
1431633	B	Composite Video Switcher Kit.....	3-61
1431700	B	Computerized Editing System, ACE 25.....	1-1
1431718	C	Power Supply/Regulator Harness Assembly.....	2-35
1431719	B	Regulator-Backplane Power Cable Assembly.....	3-23
1431720	B	Regulator/PC Motherboard Power Cable Assembly.....	2-36
1431721	A	Fan Assembly.....	2-33
1431722	B	Disk Drive Power Harness Assembly.....	2-37
1431726	B	Dumpster-Backplane Cable Assembly.....	3-24
1431727	-	Dumpster-Video Timing Cable Assembly.....	4-10
1431728	C	Disk Drive Cable Assembly.....	2-43
1433400	A	Composite Switcher 1 PWA.....	3-62
1443382	1	Timing Generator PWA.....	3-81



## NUMERICAL LIST OF ASSEMBLIES

ASSEMBLY NO.	REV	TITLE	PAGE NO.
1445916	A	ACE 25 Backplane PWA .....	3-15
1445919	A	SPU Extender PWA.....	3-9
1445924	B	Audio Switcher PWA .....	3-94
1445928	A	Component Video Switcher 1 PWA.....	3-27
1445955	B	Video Timing PWA.....	3-51

## NUMERICAL LIST OF SCHEMATICS

SCHEMATIC NO.	REV	TITLE	PAGE NO.
1430958	A	Dumpster Bus I/F PWA.....	3-5
1431027	A	8 Channel ILC PWA.....	2-25
1431448	C	Regulator PWA .....	2-5
1431456	B	Color Field 1 Detector PWA.....	2-12
1431459	C	I/O PWA.....	2-19
1443384	X1	Timing Generator PWA.....	3-85
1443402	B	Composite Switcher 1 PWA .....	3-71
1445918	A	ACE 25 Backplane PWA .....	3-18
1445921	A	SPU Extender PWA.....	3-12
1445926	B	Audio Switcher PWA .....	3-100
1445930	B	Component Switcher 1 PWA.....	3-36
1445957	B	Video Timing PWA.....	3-85

ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
				-00									
1	1430373-01	EDIT CONTROLLER ASSEMBLY		1									
2	1430875-01	MISCELLANEOUS PARTS KIT		1									
3	1431701-01	KEYBOARD		1									
4	1431870-01	SYSTEM SOFTWARE (VER 1.0)		1									
5	1430987	NTSC SET UP INSTRUCTIONS	2	1									
6	1430988	PAL SET UP INSTRUCTIONS	2	1									
7	1430989	PAL M SET UP INSTRUCTIONS	2	1									
8	1430588-AA	TABLE TOP MONITOR KIT	2	1									
9	1430874-01	COMPONENT SWITCHER INTERFACE KIT		REF									
10	1430925-AA	MONITOR EXTENSION CABLE ASSY, 5 MTR		REF									
11	1430925-AB	MONITOR EXTENSION CABLE ASSY, 10 MTR		REF									
12	1430925-AC	MONITOR EXTENSION CABLE ASSY, 20 MTR		REF									
13	1430925-AD	MONITOR EXTENSION CABLE ASSY, 30 MTR		REF									
14	1431588-AA	RACK MOUNT MONITOR KIT	2	1									
15	1431589-01	COMPONENT VIDEO SWITCHER KIT		REF									
16	1431590-01	AUDIO SWITCHER KIT		REF									
17	1431599-01	COMPOSITE DATA VIDEO KIT		REF									
18	1431610-01	DIAGNOSTIC KIT		REF									
19	1430588-AB	TABLE TOP MONITOR KIT	2	1									
20	1431612-01	SELF INSTRUCTIONS PACKAGE		REF									
21	1431613-01	COMPONENT KEYBOARD		REF									
22	1431626-01	CABLE, OPTION 1, COMPOSITE, 5 MTR		REF									
23	1431627-01	CABLE, OPTION 2, COMPOSITE, 10 MTR		REF									
24	1431628-01	CABLE, OPTION 3, COMPONENT, 5 MTR		REF									
25	1431629-01	CABLE, OPTION 4, COMPONENT, 10 MTR		REF									
26	1431633-01	COMPOSITE VIDEO SWITCHER KIT		REF									
27	1431018-AA	CABLE ASSY, SERIAL CONTROL, 5 MTR		REF									
28	1431018-AB	CABLE ASSY, SERIAL CONTROL, 10 MTR		REF									
29	1431018-AC	CABLE ASSY, SERIAL CONTROL, 20 MTR		REF									
30	1431018-AD	CABLE ASSY, SERIAL CONTROL, 30 MTR		REF									
31	1431588-AB	RACK MOUNT MONITOR KIT	2	1									
		NOTES:											
		1. ITEMS 9-13, 15-18, 20-30 ARE OPTION AND SHALL BE SELECTED PER SALES ORDER.											
		2. SELECT ONE.											

LM-1431700

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER												
				-01												
1	1430879-01	HARNESS, AC	1													
2	1430917-01	PANEL, I/O SWITCHER BLANK	1													
3	1431446-01	PWA, REGULATOR	1													
4	1431454-01	PWA, COLOR FIELD 1 DETECTOR	1													
5	1431457-01	PWA, I/O	1													
6	1431566-01	CPU MOTHERBOARD	1													
7	1431569-01	MONOCHROME DISPLAY ADAPTER	1													
8	1431572-01	FLOPPY DISK CONTROLLER	1													
9	1431578-01	8 CHANNEL ILC	-													
10	1431581-01	POWER SUPPLY	1													
11	1431582-01	DISK DRIVE	2													
12	1431592-01	CABLE, PRINTER	1													
13	1431593-01	CABLE, GPI	1													
14	1431630-01	CABLE, RS232	2													
15	1431631-01	PLATE, MODEL ID	1													
16	1431713-01	DOOR	-													
17	1431705-01	CARD CAGE WELDMENT	1													
18	1431706-01	CHASSIS, BOTTOM	1													
19	1431707-01	MOUNT, DISK DRIVE	1													
20	1431708-01	PANEL, CONTROLLER I/O	1													
21	1431710-01	DAUGHTER BOARD RETENTION BAR	1													
22	1430992-01	CABLE, DIAGNOSTIC PORT	1													
23	1431712-01	TOP COVER	1													
24	1431714-01	RACK MOUNT FLANGE	2													
25	1430920-01	NUT PLATE LATCH MTG	1													
26	1431716-01	HINGE	-													
27	1431718-01	HARNESS, POWER SUPPLY-REGULATOR	1													
28	1431720-01	HARNESS, REGULATOR-MOTHERBOARD	1													
29	1431721-01	DC FAN ASSEMBLY	1													
30	1431722-01	HARNESS, DISK DRIVE POWER	1													
31	1430997-01	CABLE, COMPUTER MONITOR	1													
32	1430993-01	CABLE, SERIAL COMMUNICATIONS	-													
33	1431728-01	CABLE, DISK DRIVE	1													
34	1431732	INTERCONNECT DIAGRAM, EDIT CONTROLLER	(-)													
35	6000037-03	LABEL, SYSTEM ID	1													
36	6000054-03	PLATE, TRADEMARK	1													
37	6000055-02	LABEL, CLASS A COMP	1													

LM-1430873

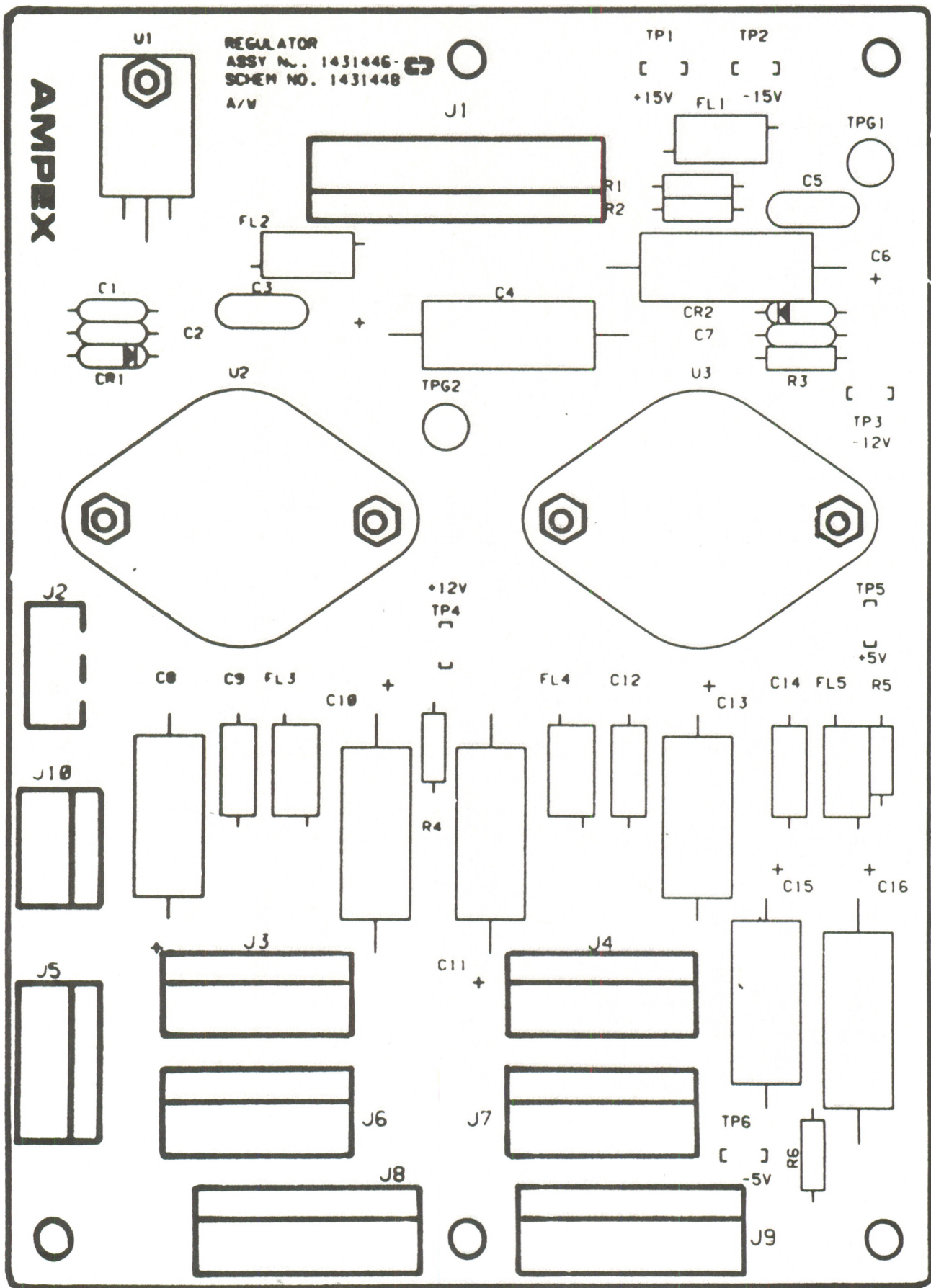
AMPEX		CODE IDENT NO 92739		LIST OF MATERIALS		LM-1430873		SHEET 2 OF 2		REV L																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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38	251-004	PLUG FILLER		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

LM-1430873

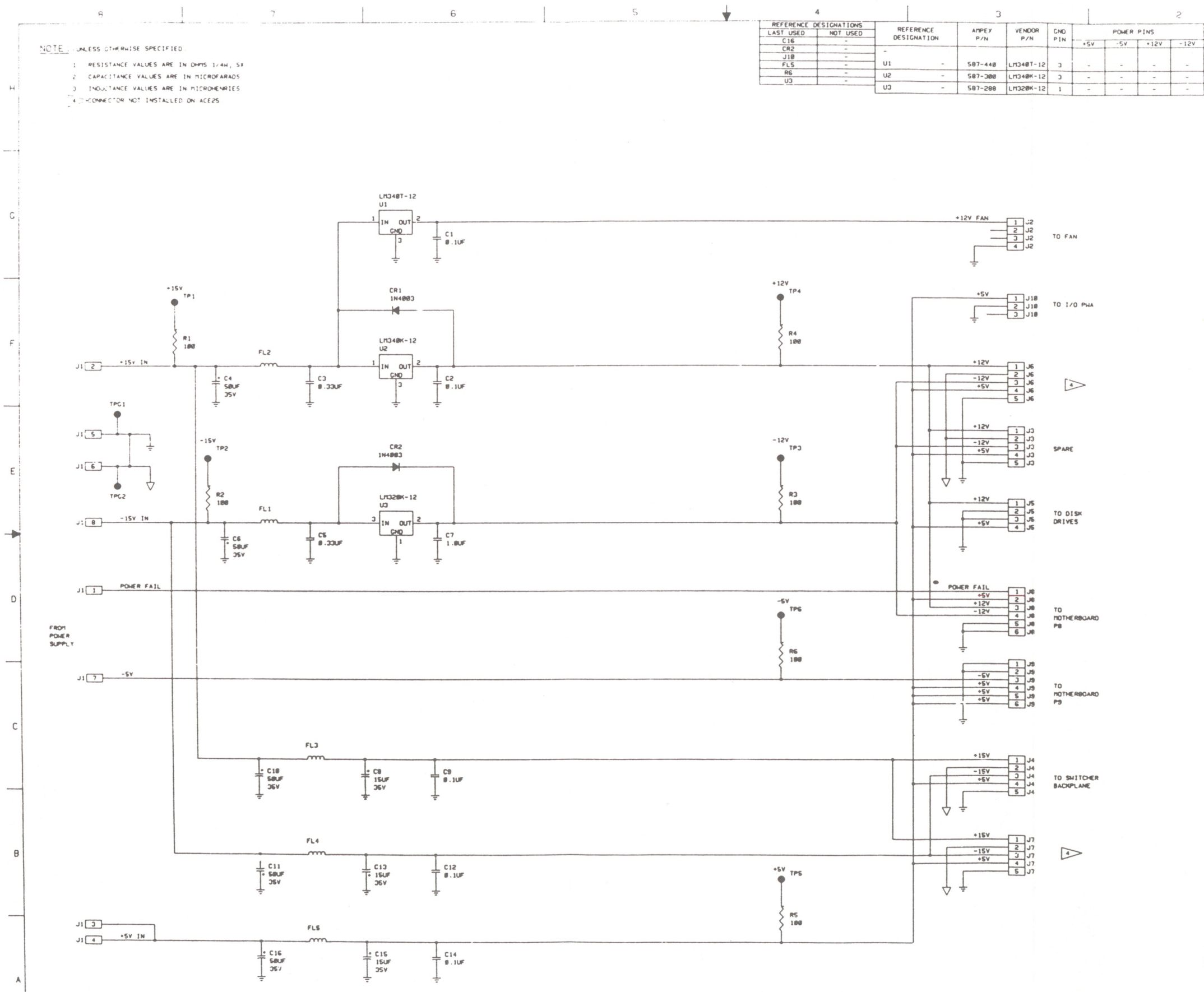


ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER										
				-01										
1														
2														
3	1431448	SCHEMATIC	(C)											
4														
5														
6	063-037	CAPACITOR, ELECT., 50uF, 25V, -10, +75% C4,6,10,11,16	5											
7	063-042	CAPACITOR, ELECT., 15uF, 25V, -10, +75% C8,13,15	3											
8														
9	064-278	CAPACITOR, CER., DIPPED, .33uF, 50V, ±10% C3,5	2											
10														
11	064-760	CAPACITOR, CER., TUBULAR, .1uF, 50V, ±5% C9,12,14	3											
12	064-653	CAPACITOR, CER., TUBULAR, 0.1uF, 50V, ±20% C1,2	2											
13	064-750	CAPACITOR, CER., TUBULAR, 1.0uF, 50V, ±20% C7	1											
14	135-379	HEADER ASSEMBLY, 4 POSTS J2	1											
15	135-999	HEADER ASSEMBLY, 5 POSTS J3,4,6,7	4											
16	135-996	HEADER ASSEMBLY, 4 POSTS J5	1											
17	135-997	HEADER ASSEMBLY, 6 POSTS J8,9	2											
18	135-998	HEADER ASSEMBLY, 8 POSTS J1	1											
19														
20														
21	051-770	FERRITE-CHOKE FL1-5	5											
22														
23	587-299	INTEGRATED CIRCUIT, LM320K-12 U3	1											
24	587-300	INTEGRATED CIRCUIT, LM340K-12 U2	1											
25	587-440	INTEGRATED CIRCUIT, LM340T-12 U1	1											
26														
27	013-630	DIODE, SILICON, 1N4003 CR1,2	2											
28														
29	173-620	TERMINAL, TURRET TPG1,2	2											
30	187-259	TERMINAL, PC TP1-6	6											
31														
32	135-899	HEADER ASSEMBLY, 3 POSTS, STR J10	1											
33														
34	066-812	RESISTOR, C.F., 10 <sup>4</sup> OHMS, 1/4W, ±5% R1-6	6											
35	CD 752	SCREW, METRIC REF: U1-3	AR											
36	CD 753	NUT, METRIC REF: U1-3	AR											
37	CD 754	WASHER, METRIC REF: U1-3	AR											

LM-1431446



















Assembly No. 1431446-01D. Regulator PWA



Schematic Diagram No. 1431448C.  
Regulator PWA

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01											
1															
2															
3	1431456	SCHEMATIC		(B)											
4															
5	1430933-01	PROM ASSY, ADDRESS DECODER 16L8 U33		1											
6	1430883-01	BRACKET, DAUGHTER BOARD MOUNTING		1											
7															
8	064-278	CAPACITOR, CER., 0.33uF, 50V, ±10% C2,7,12,17,104		5											
9	064-284	CAPACITOR, CER., 1.0uF, 50V, ±10% C20		1											
10	064-653	CAPACITOR, CER., 0.1uF, 50V, ±20% C5,6,10,11,13-16,18,19,22-34,36,41-44,46-65,67-80,83-92,96-103		80											
11	064-316	CAPACITOR, CER., 2.2uF, 50V, ±20% C21		1											
12	064-763	CAPACITOR, CER., .01uF, 50V, ±10% C3,4,8,93-95		6											
13															
14															
15															
16	034-225	CAPACITOR, MICA, 220pF, 500V, ±1% C39		1											
17	034-252	CAPACITOR, MICA, 82pF, 500V, ±1% C9		1											
18	034-285	CAPACITOR, MICA, 75pF, 500V, ±1% C37		1											
19	034-367	CAPACITOR, MICA, 91pF, 500V, ±1% C40		1											
20	034-540	CAPACITOR, MICA, 51pF, 500V, ±1% C38		1											
21	064-657	CAPACITOR, MICA, 2pF, 500V, ±0.5pF C35		1											
22	034-543	CAPACITOR, MICA, 240pF, 500V, ±5% C105		1											
23															
24	037-812	CAPACITOR, TANT., 10uF, 25V, ±20% C1,81		2											
25	037-892	CAPACITOR, TANT., 47uF, 10V, ±20% C82		1											
26	037-962	CAPACITOR, TANT., 4.7uF, 10V, ±20% C45,66		2											
27															
28															
29	135-989	HEADER ASSEMBLY, 10 POSTS J12		1											
30	135-994	HEADER ASSEMBLY, 5 POSTS J15		1											
31	140-692	CONN, SIGNAL CKT, REPT, RF, 1 COAX SOCKET J1,6		2											
32	140-437	CONN, SIGNAL CKT, PLUG J2-5,7-11,13,14,16		12											
33															
34															
35															

LM-1431454

AMPEX		Amplex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739		LIST OF MATERIALS		LM-1431454		SHEET 2 OF 4		REV E		
ITEM NO.	PART NUMBER		DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER									
					-01									
36	595-071		CRYSTAL, OSC, 28.6049 MHZ 	Y2	1									
37	595-072		CRYSTAL, OSC, 28.6364 MHZ	Y1	1									
38	595-073		CRYSTAL, OSC, 35.4689 MHZ	Y3	1									
39	581-467		L.E.D., AMBER	DS1	1									
40	581-468		L.E.D., GREEN	DS2	1									
41	581-857		L.E.D., ARRAY, RED	DS3	1									
42														
43	051-770		FERRITE - CHOKE	L1,2	2									
44														
45	000-645		INTEGRATED CIRCUIT, 1235	U65,71	2									
46	002-093		74HC00 	U39,63	2									
47	002-916		74HC02 	U28,29	2									
48	002-947		74HC74	L26	1									
49	003-045		74HC08	U19,40,41	3									
50	003-048		74HC32	U42	1									
51	003-049		74HC86	U55	1									
52	003-056		74HC244	U36	1									
53	003-143		74HC04	U37	1									
54	003-151		74HC374	U30,34	2									
55	003-302		4040	U31	1									
56	004-697		74F30	U62	1									
57	003-494		74HC191	U18,24,25	3									
58	003-496		74HC423	U17	1									
59	003-238		74HCT244 	U67,69,70	3									
60	003-816		74HCT245 	U64,72	2									
61	590-579		75452B	U15,16	2									
62	004-462		74HC107 	U4,5	2									
63	004-641		74AC00 	U6,57	2									
64	004-656		LM1881	U2	1									
65	004-664		74AC32 	U22,44	2									
66	004-665		74AC20 	U10	1									
67	005-033		74AC74	U8,9,20,23,43, 45,46,52,54,58	10									
68	005-646		74AC139	U21	1									
69	005-647		74AC191	U48,49	2									
70	005-648		74HC93	U66	1									
71	005-649		74AC08	U53,59,60	3									
72	005-650		74ACT00	U27	1									
73	005-651		74AC02	U56	1									
74	005-652		74ACT32 	U7,51	2									
75	005-653		74AC04 	U11	1									
76	005-716		AM686C	U13	1									
77	587-771		78LOSAC2	U1,14	2									
78	589-380		79LOSAC2	U3,12	2									
79	005-127		74HCT11 	U61	1									
80	002-950		INTEGRATED CIRCUIT, 74HC273 	U35	1									

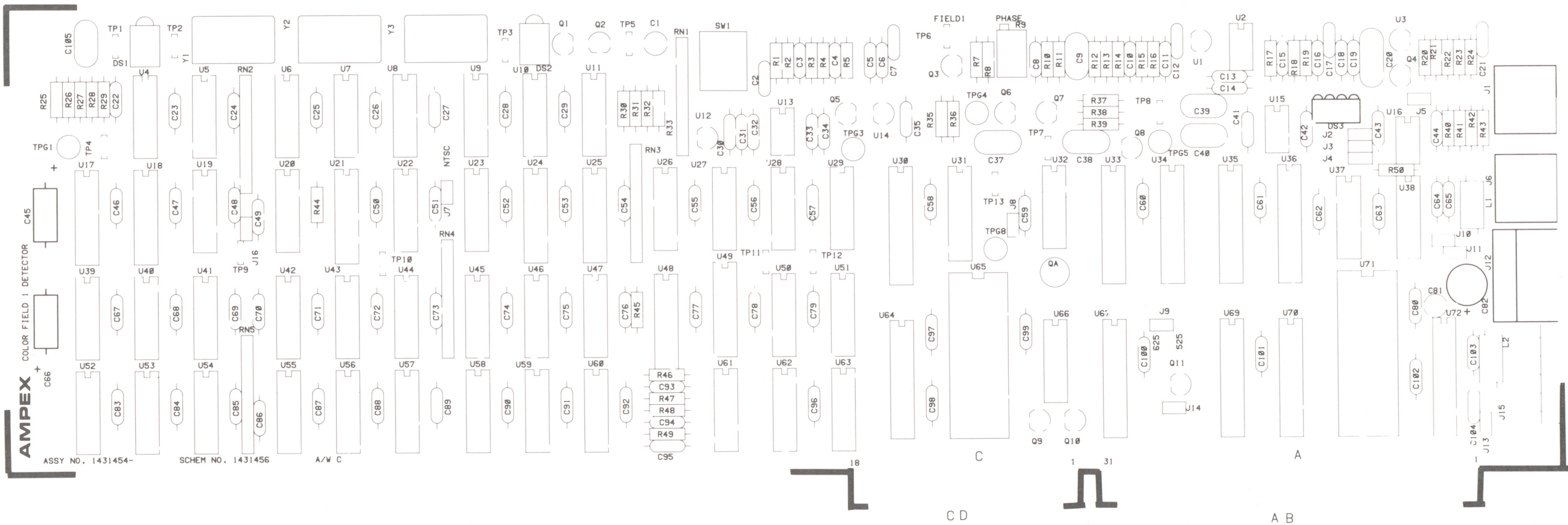
LM-1431454



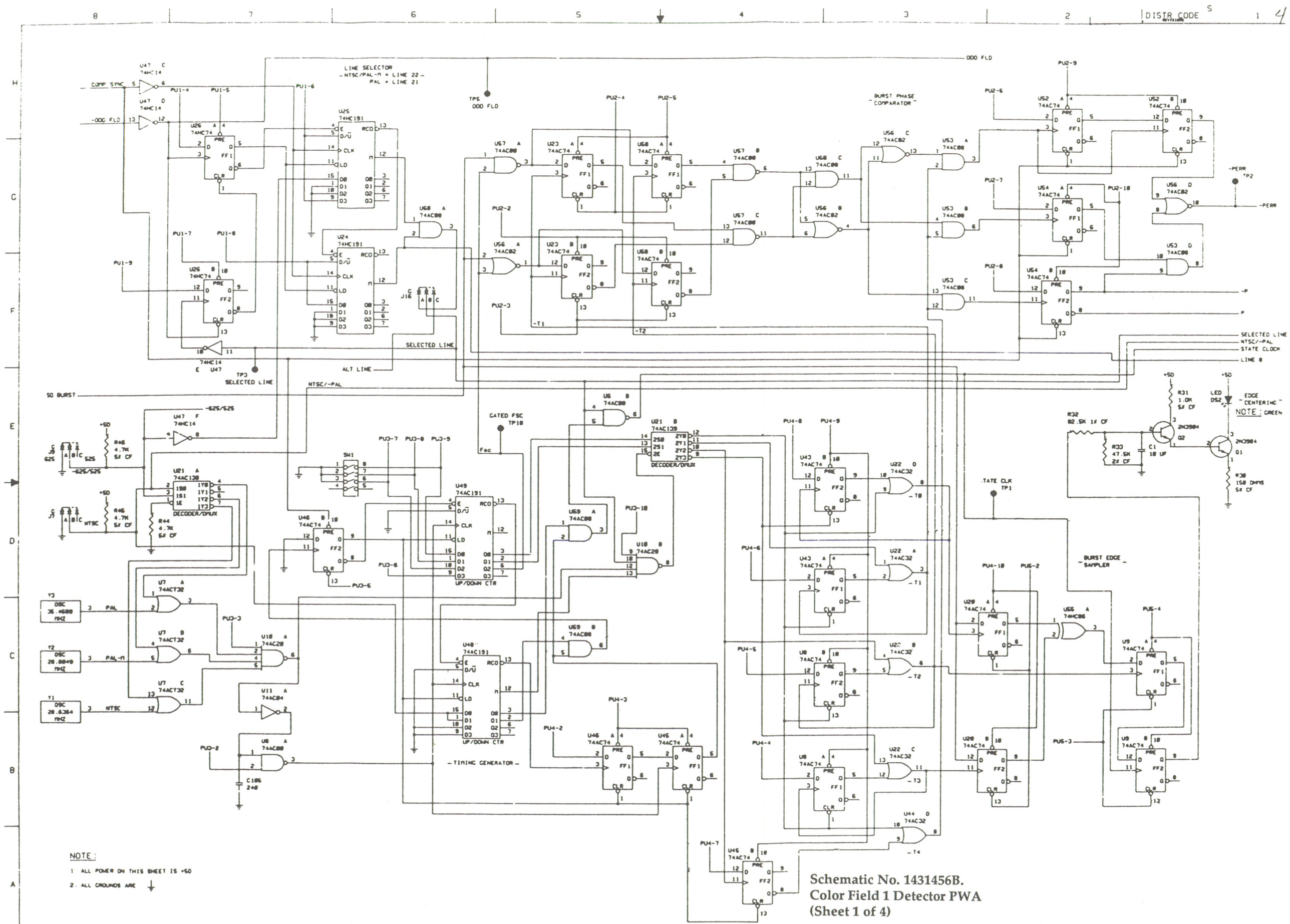
AMPEX		Ampex Corporation REDWOOD CITY, CALIFORNIA		CODE IDENT NO 92739	LIST OF MATERIALS	LM-1431454	SHEET 3 OF 4		REV E										
ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER															
				-01															
81	005-652	INTEGRATED CIRCUIT, 74ACT32	U51	-															
82	004-446	INTEGRATED CIRCUIT, 74HC14	U47	1															
83	039-323	NETWORK, RESISTOR, 10K OHMS, 10 PIN SIP	RN1-5	5															
84	066-663	RESISTOR, C.F., 220 OHMS, 1/4W, $\pm 5\%$	R27,50	2															
85	066-665	RESISTOR, C.F., 1K OHMS, 1/4W, $\pm 5\%$	R31	1															
86	066-666	RESISTOR, C.F., 2.7K OHMS, 1/4W, $\pm 5\%$	R17,36	2															
87	066-668	RESISTOR, C.F., 4.7K OHMS, 1/4W, $\pm 5\%$	R26,28,44-49	8															
88	066-810	RESISTOR, C.F., 10 OHMS, 1/4W, $\pm 5\%$	R40-43	4															
89	066-813	RESISTOR, C.F., 150 OHMS, 1/4W, $\pm 5\%$	R30	1															
90																			
91																			
92																			
93																			
94																			
95																			
96																			
97																			
98	042-378	RESISTOR, M.F., 8.25K OHMS, 1/4W, $\pm 1\%$	R7,8	2															
99	062-601	100K	R25,29	2															
100	062-624	1K	R1,3,5,10,15,20	6															
101	062-642	6.81K	R16	1															
102	062-836	75	R24	1															
103	062-847	100	R2,4	2															
104	062-855	121	R23	1															
105	062-877	221	R12,13,38	3															
106	062-901	475	R19,21	2															
107	062-932	1.50K	R37	1															
108	062-966	4.75K	R39	1															
109	062-983	10K	R14	1															
110	066-012	40.2K	R22	1															
111	066-703	487	R11	1															
112	076-017	681K	R18	1															
113	062-941	2.21K	R35	1															
114	062-894	402	R34	-															
115	076-347	82.5K	R32	1															
116	066-014	RESISTOR, M.F., 47.5K OHMS, 1/4W, $\pm 1\%$	R33	1															
117																			
118	058-539	RESISTOR, VAR., 1K OHMS, 1/2W, $\pm 10\%$	R9	1															
119	058-612	RESISTOR, VAR., 200 OHMS, 1/2W, $\pm 10\%$	R6	-															
120																			
121	119-715	SWITCH, DIP, ROCKER, 4 X SPDT	SW1	1															
122	187-055	TERMINAL, WIREWRAP	J2-A,B,C; J3-A,B,C; J4-A,B,C; J8-A,B; J10-A,B; J11-A,B,C;	33															
123			J13-A,B,C; J14-A,B; J5-A,B,C; J7-A,B,C; J9-A,B,C; J16-A,B,C																
124	173-620	TERMINAL, TURRET, SWAGE	TPG1,2,4,5,8	5															

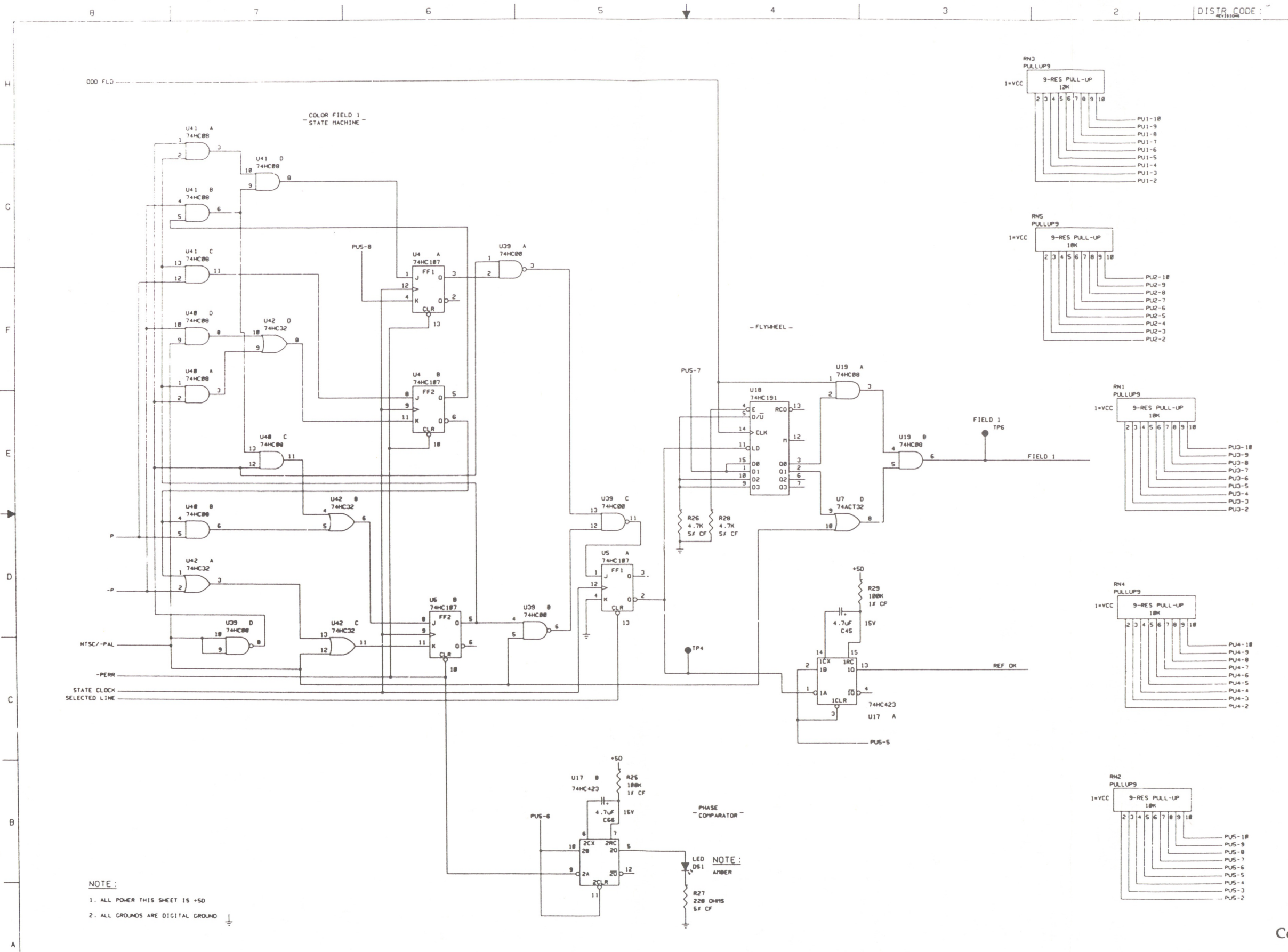
LM-1431454

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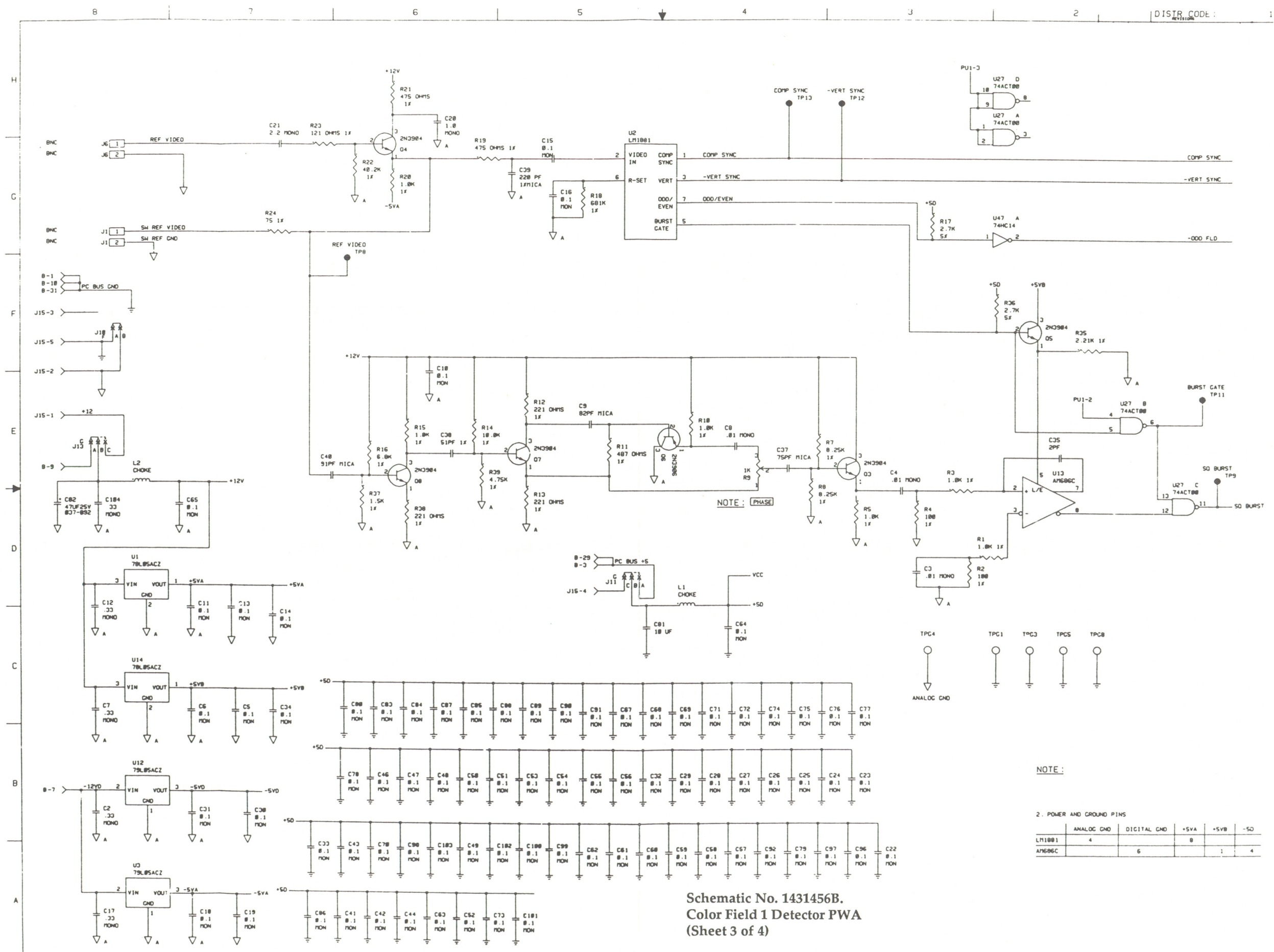


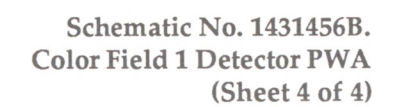




Schematic No. 1431456B.  
Color Field 1 Detector PWA  
(Sheet 2 of 4)





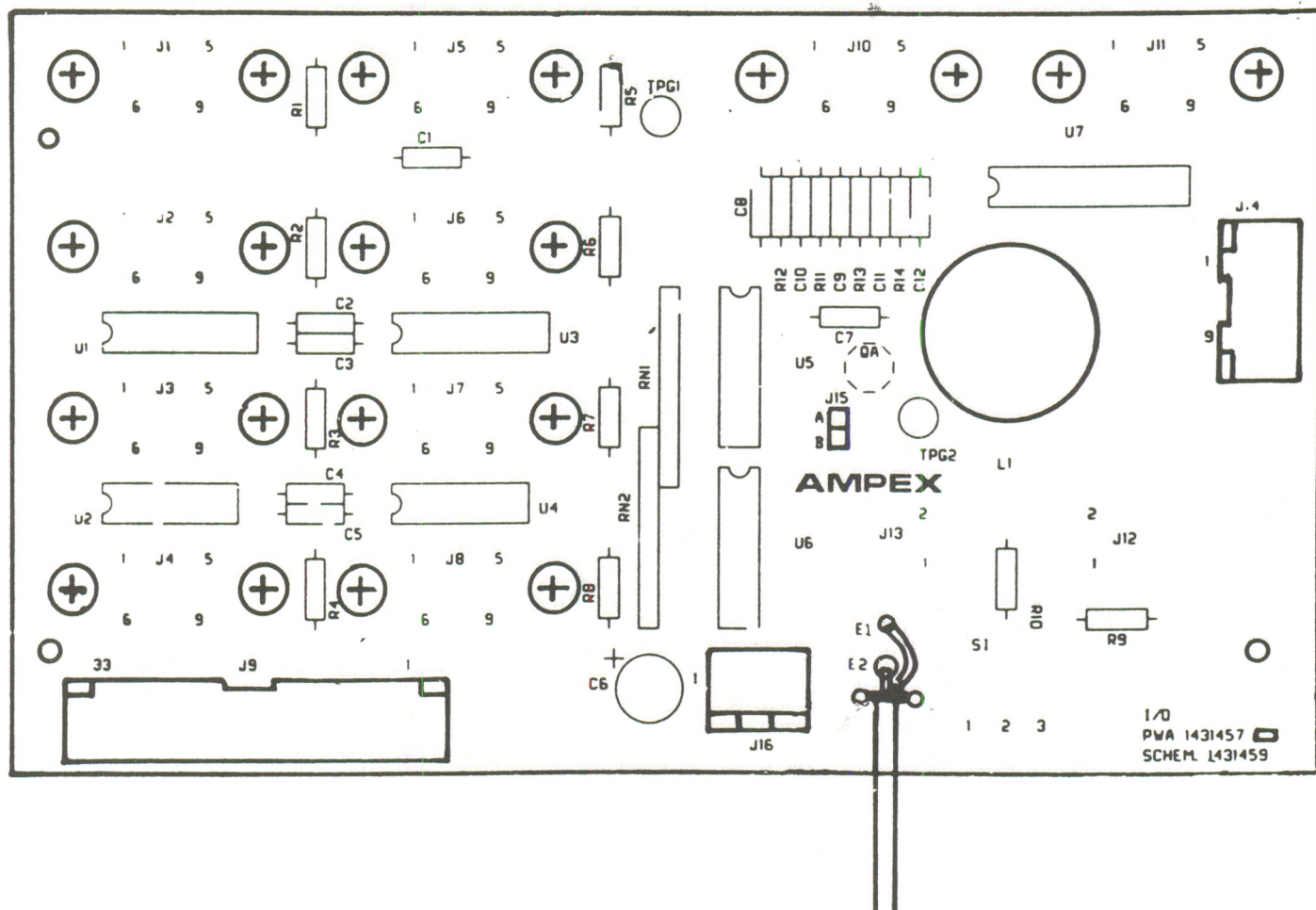




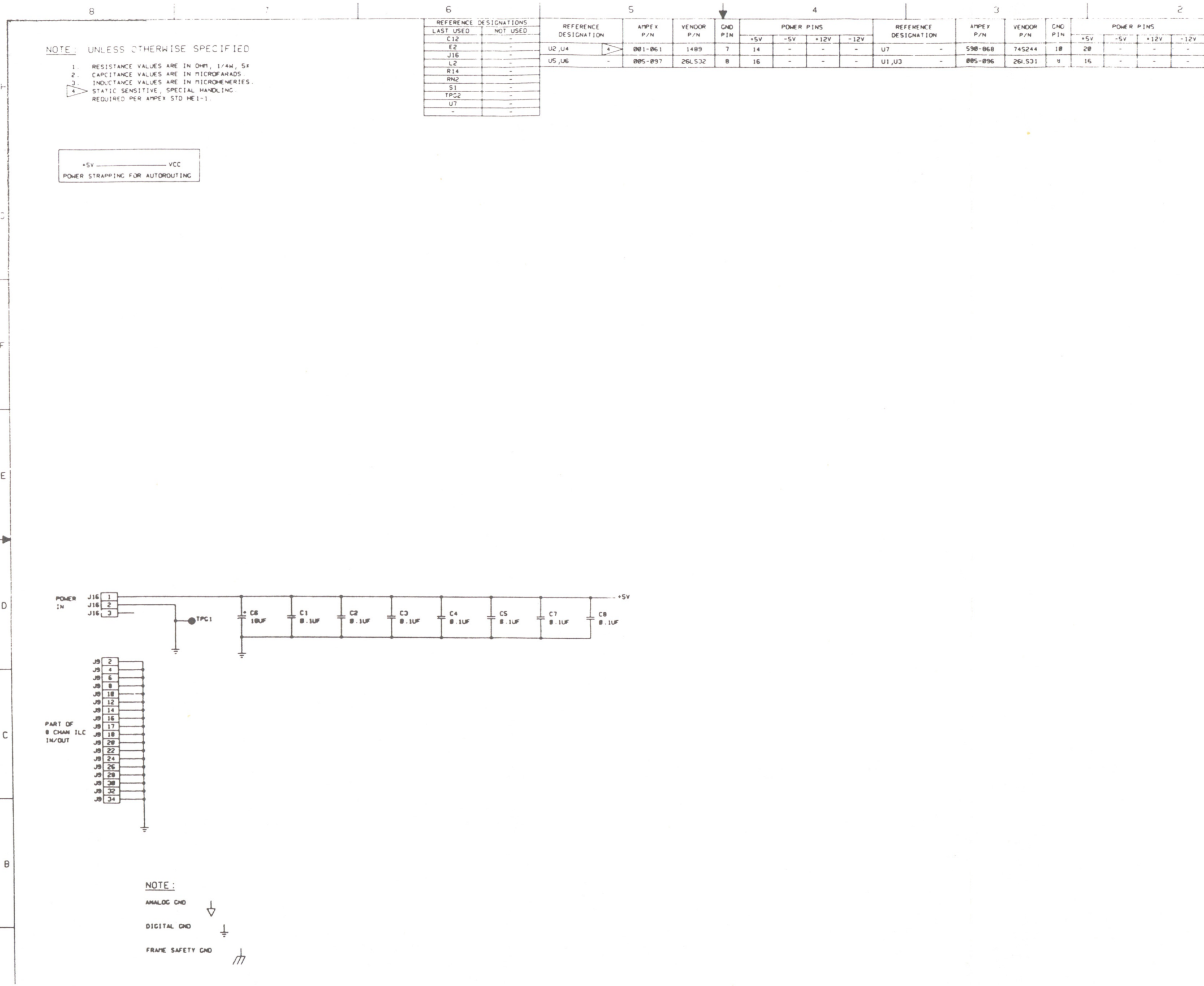
ITEM NO	PART NUMBER	DESCRIPTION	REF DESG	QTY REQD PER DASH NUMBER									
				-01									
1													
2													
3	1431459	SCHEMATIC	(C)										
4													
5	141-854	CONN., RECEPT, RF, 1 COAX SOCKET J12,13	2										
6													
7	064-653	CAPACITOR, CER., 0.1uF, 50V, ±20% C1-5,7,8	7										
8													
9	064-687	CAPACITOR, CER., MONO., 120pF, 50V, ±1% C9-12	4										
10													
11	067-205	CAPACITOR, TANT., 10uF, 25V, ±20% C6	1										
12	135-235	HEADER ASSY, 10 POST, STR J14	1										
13	141-857	CONN., RECEPTACLE, RECT., 9 SOCKETS J1-8,10,11	10										
14	135-183	HEADER ASSY, 54 POSTS, STR J9	1										
15	140-536	CONN., SIGNAL CKT, PLUG, RF, 1 COAX PIN P6	1										
16	005-097	INTEGRATED CIRCUIT, 26LS32 U5,6	2										
17	005-096	INTEGRATED CIRCUIT, 26LS31 U1,3	2										
18	001-061	INTEGRATED CIRCUIT, 1489 U2,4	2										
19	590-868	INTEGRATED CIRCUIT, 74S244 U7	1										
20													
21	076-004	RESISTOR, C.F., 180 OHMS, 1/4W, ±5% R1-8	8										
22	076-039	RESISTOR, C.F., 20 OHMS, 1/4W, ±5% R11-14	4										
23													
24	062-836	RESISTOR, M.F., 75 OHMS, 1/4W, ±1% R9,10	2										
25	582-330	I.C. MTG HDW, SOCKET, 14 PINS REF: U2,4	2										
26	118-094	SWITCH, SLIDE, SPDT S1	1										
27	582-333	I.C. MTG HDW, SOCKET, 20 PINS REF: U7	1										
28	616-569	CABLE, COAXIAL, 10 IN. LG	1										
29	582-331	I.C. MTG HDW, SOCKET, 16 PINS REF: U1,3,5,6	4										
30	302-395	STRAP, CABLE, MOUSETAIL	1										
31	173-620	TERMINAL, TURRET TPG1,2	2										
32	187-055	TERMINAL, WIREWRAP J15-A,8	2										
33	140-437	CONN., SIGNAL CKT, PLUG J15	1										
34	135-899	HEADER ASSY, 3 POSTS, STR J16	1										
35	039-231	NETWORK, RESISTOR, 2.7K OHMS, 10 PIN SIP RN1,2	2										
36	205-384	STANDOFF, METRIC REF: J1-8,10,11	20										
37	CD 572	SCREWS, METRIC REF: J1-8,10,11	AN										

LM-1431457



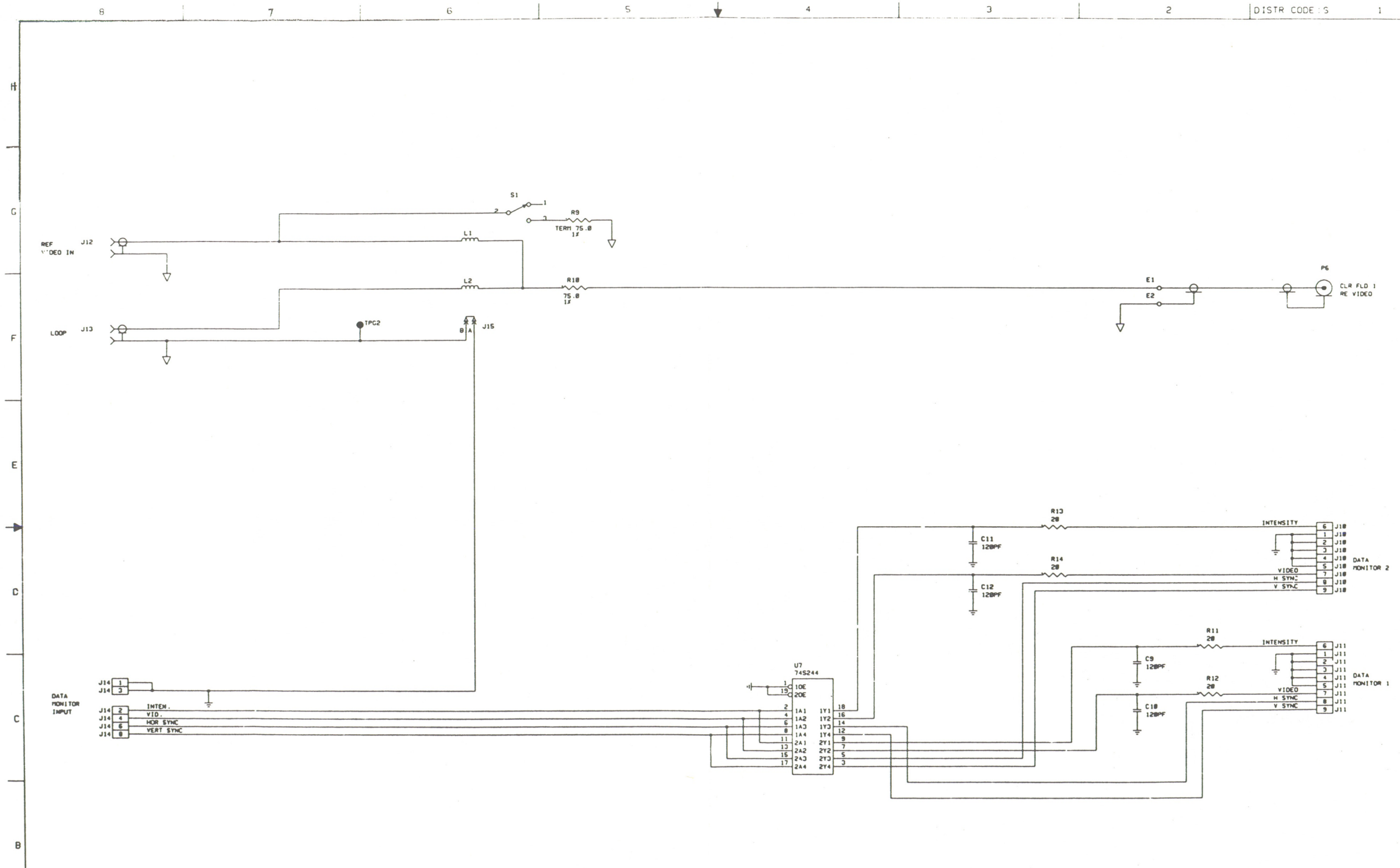


Assembly No. 1431457-01F. I/O PWA

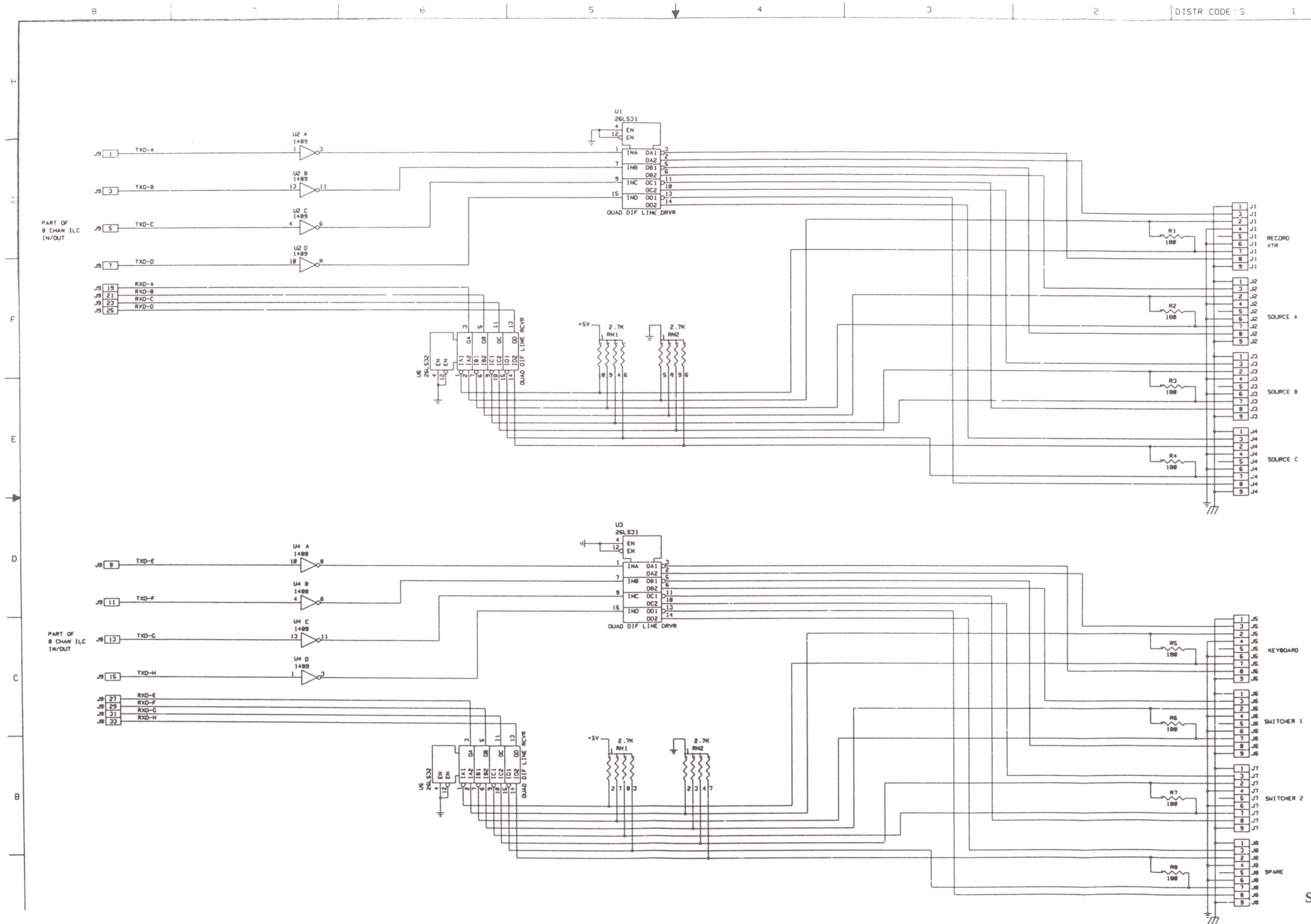


Schematic No. 1431459C.  
I/O PWA  
(Sheet 1 of 3)





Schematic No. 1431459C.  
I/O PWA  
(Sheet 2 of 3)

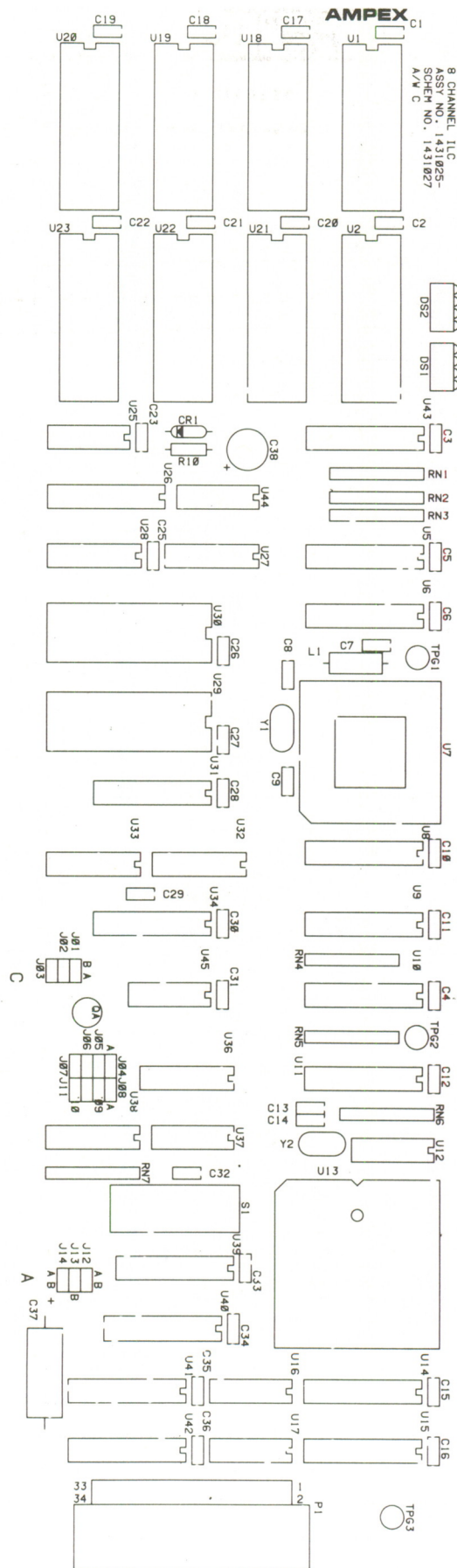


Schematic No. 1431459C.  
I/O PWA  
(Sheet 3 of 3)

ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01											
1															
2															
3	1431027	SCHEMATIC		B											
4															
5	1430974-01	PROM ASSEMBLY, ILC LOW (MSM27C256K-15) <sup>005-895</sup>	U2	1											
6	1430975-01	PROM ASSEMBLY, ILC HIGH (MSM27C256K-15) <sup>005-895</sup>	U1	1											
7	1430985-01	PROM ASSEMBLY, AR31TER <sup>004-518</sup> PAL16R48NC	U11	1											
8	1430883-01	BRACKET, DAUGHTER BOARD MOUNTING		1											
9															
10															
11	064-661	CAPACITOR, CER, 24 pF, 50V, ±.5 pF	C13,14	2											
12	064-685	CAPACITOR, CER, 200 pF, 50V, ±1%	C7	1											
13	064-729	CAPACITOR, CER, 15 pF 50V, ±.5 pF	C8,9	2											
14	064-754	CAPACITOR, CER, .01 uF, 50V, ±20%	C1-6,10-12,15-36	31											
15	037-749	CAPACITOR, TANT, 68 uF, 15V, ±10%	C37	1											
16	037-933	CAPACITOR, TANT, 10 uF, 35V, ±20%	C38	1											
17															
18	017-286	CRYSTAL UNIT, 3.6864 MHz	Y2	1											
19	017-299	CRYSTAL UNIT, 25.000 MHz	Y1	1											
20	013-599	DIODE, SWITCHING, 1N4148	CR1	1											
21															
22	135-619	HEADER ASSEMBLY, 2 POSTS	J1-15	15											
23	140-437	CONN, SIG CKT, PLUG, RECT, 2 SOCKETS	AR												
24	540-028	INDUCTOR, FIXED, 8.2 uH, ±10%	L1	1											
25															
26	581-857	L.E.D. ARRAY, 4 ELEMENT	DS1,2	2											
27															
28	003-224	INTEGRATED CIRCUIT, 74ALS1035	U17	1											
29	590-531	INTEGRATED CIRCUIT, 74LS240	U14,15	2											
30	004-397	INTEGRATED CIRCUIT, 74AS373	U5,10,31	3											
31	005-929	INTEGRATED CIRCUIT, 62256P-12	U18,21,29,30	4											
32															
33	005-760	INTEGRATED CIRCUIT, 74AS245	U6,8	2											
34	005-762	INTEGRATED CIRCUIT, 80C186-12	U7	1											
35	005-763	INTEGRATED CIRCUIT, 2698PLCC	U13	1											
36															
37	005-764	INTEGRATED CIRCUIT, 74ALS520	U39,40	2											

LM-1431025





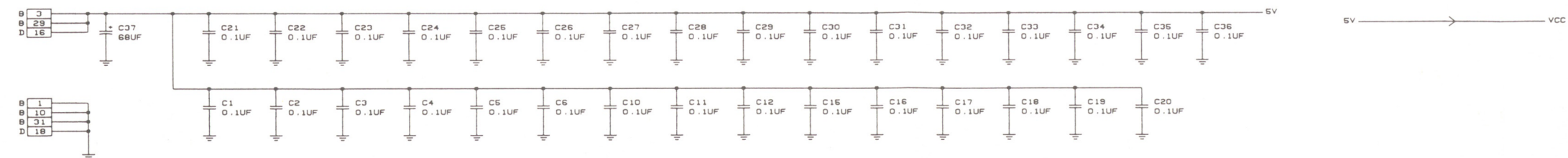
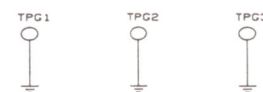
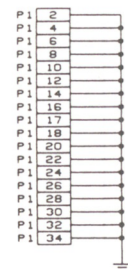
Assembly No. 1431025-01D. 8 Channel ILC PWA

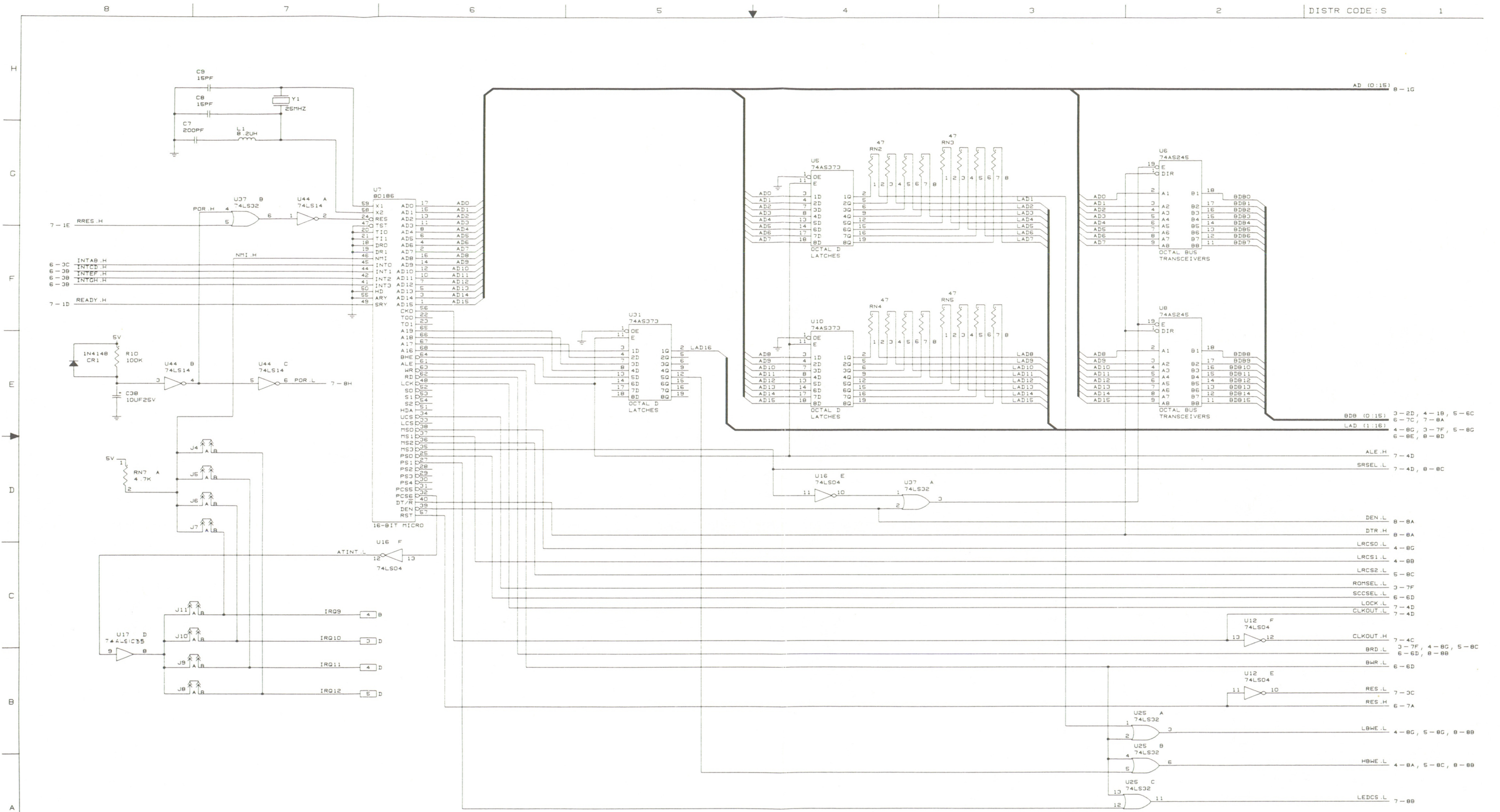


4		3					2		
REFERENCE DESIGNATIONS		REFERENCE DESIGNATION	AMPX P/N	VENDOR P/N	GND PIN	POWER PINS			
LAST USED	NOT USED					+5V	+5V	+12V	+12V
C38	-								
J15	-								
U1	-	U1	1430975-01	27C256K-16	14	28	-	-	
RN7	-	U2	1430974-01	27C256K-16	14	28	-	-	
S1	-	U5,10,31	004-397	74AS373	10	20	-	-	
TPG3	-	U6,8	005-760	74AS246	10	20	-	-	
U46	U3,4,35,24	U7	006-762	80C186-12	20/60	9/43	-	-	
CR1	R1-9	U9,26,34,42	589-457	74LS246	10	20	-	-	
R10		U12,16	590-673	74LS04	14	7	-	-	
D52	-	U13	006-763	2698PLCC	20/63	6/46	-	-	
		U14,15	590-531	74LS240	10	20	-	-	
		U17	003-224	74ALS1035	7	14	-	-	
		U18,21,29,30	006-929	62256P-12	14	28	-	-	
		U25,37	590-328	74LS32	14	7	-	-	
		U27,28,32,33,38	003-117	74AS167	8	16	-	-	
		U38	589-821	74LS85	8	16	-	-	
		U39,40	005-764	74ALS520	10	20	-	-	
		U41,43	590-335	74LS273	10	20	-	-	
		U11	1430985-01	16R48NC	10	20	-	-	
		U46	590-940	74F74	7	14	-	-	
		U44	590-495	74LS14	7	14	-	-	

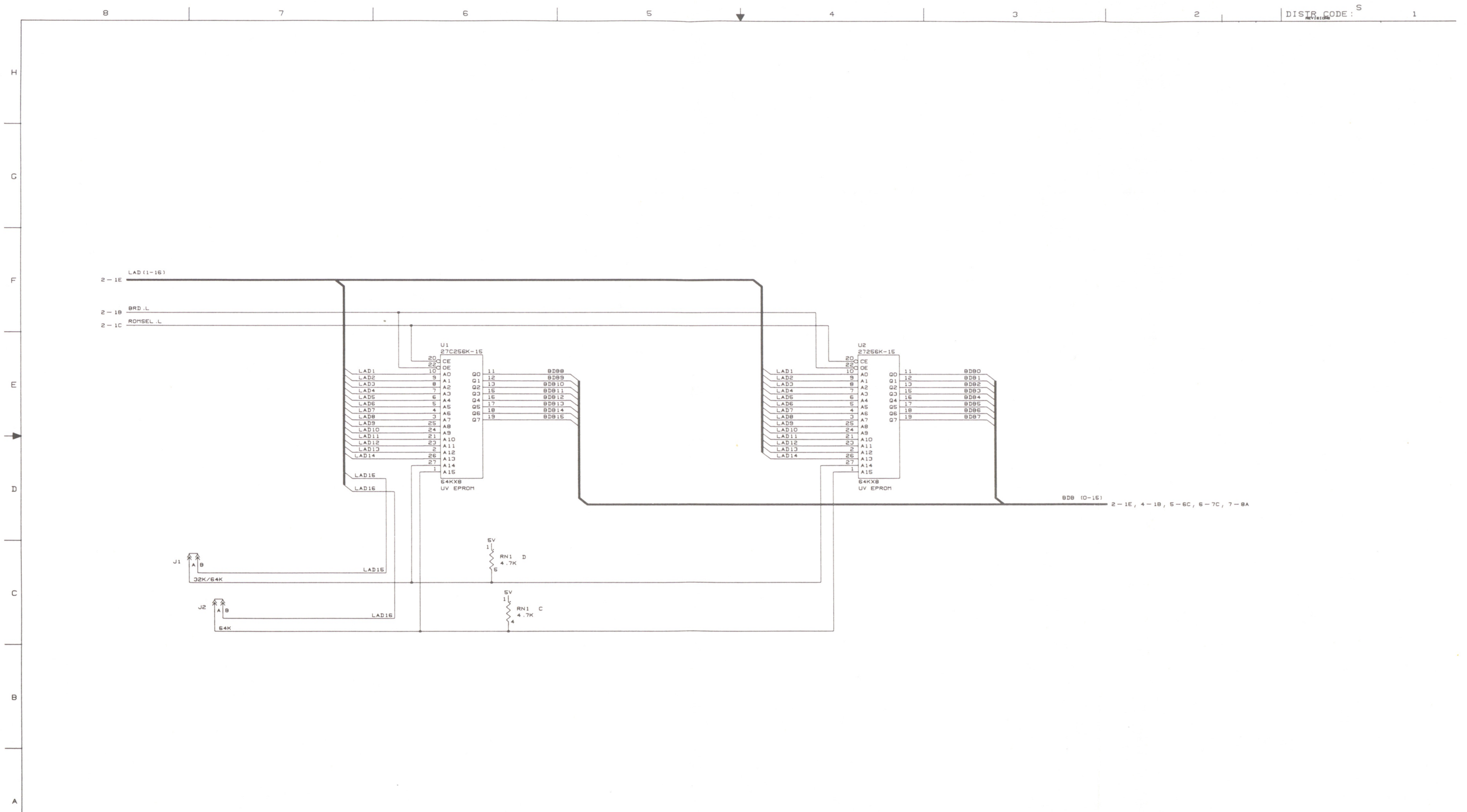
NOTES : UNLESS OTHERWISE SPECIFIED

1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
2. CAPACITANCE VALUES ARE IN MICROFARADS.
3. INDUCTANCE VALUES ARE IN MICROHENRIES.
4. STATIC SENSITIVE, SPECIAL HANDLING REQUIRED PER AMPLEX STANDARDS HE1-1.



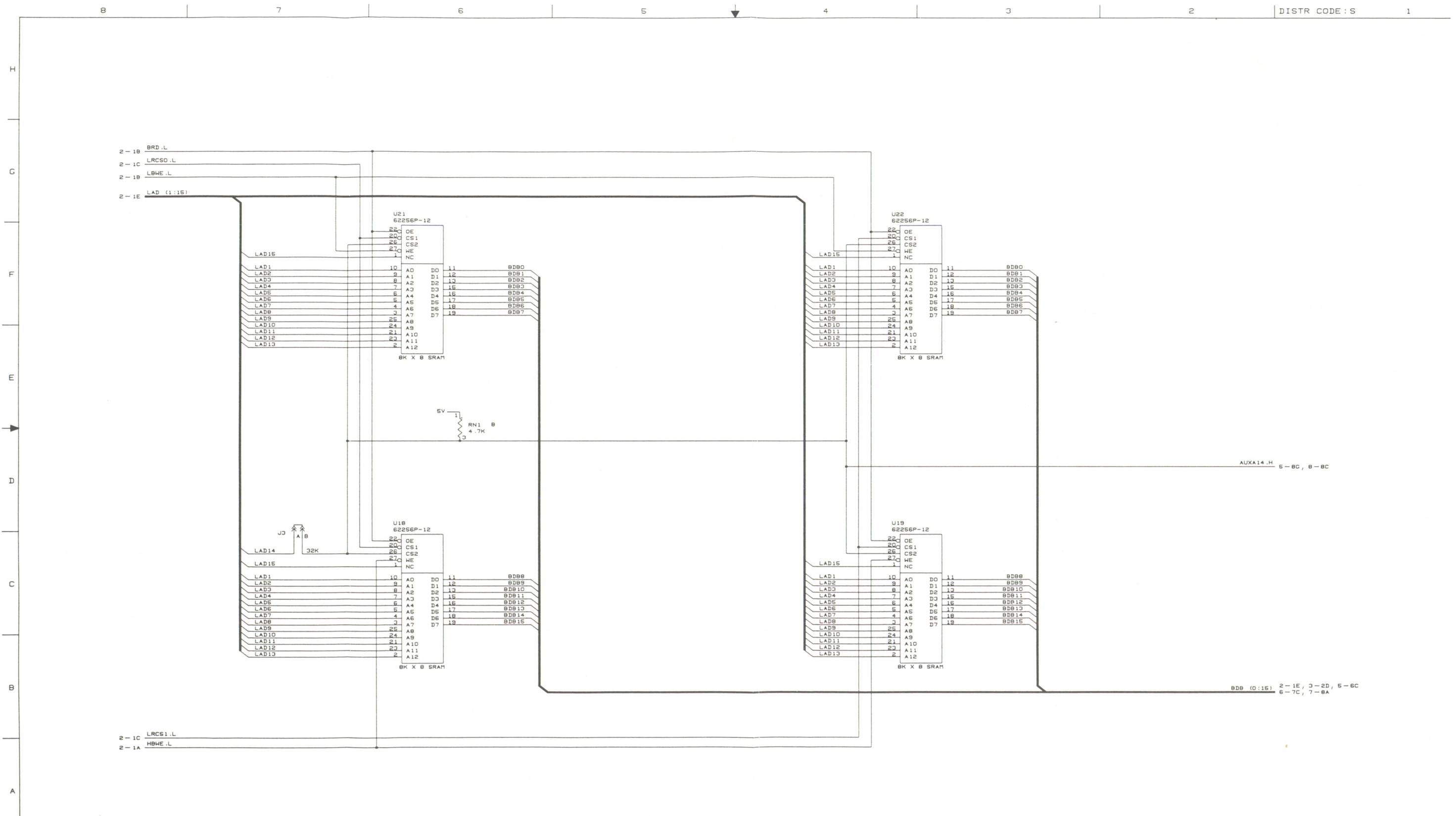


Schematic No. 1431027A.  
8 Channel ILC PWA  
(Sheet 2 of 8)

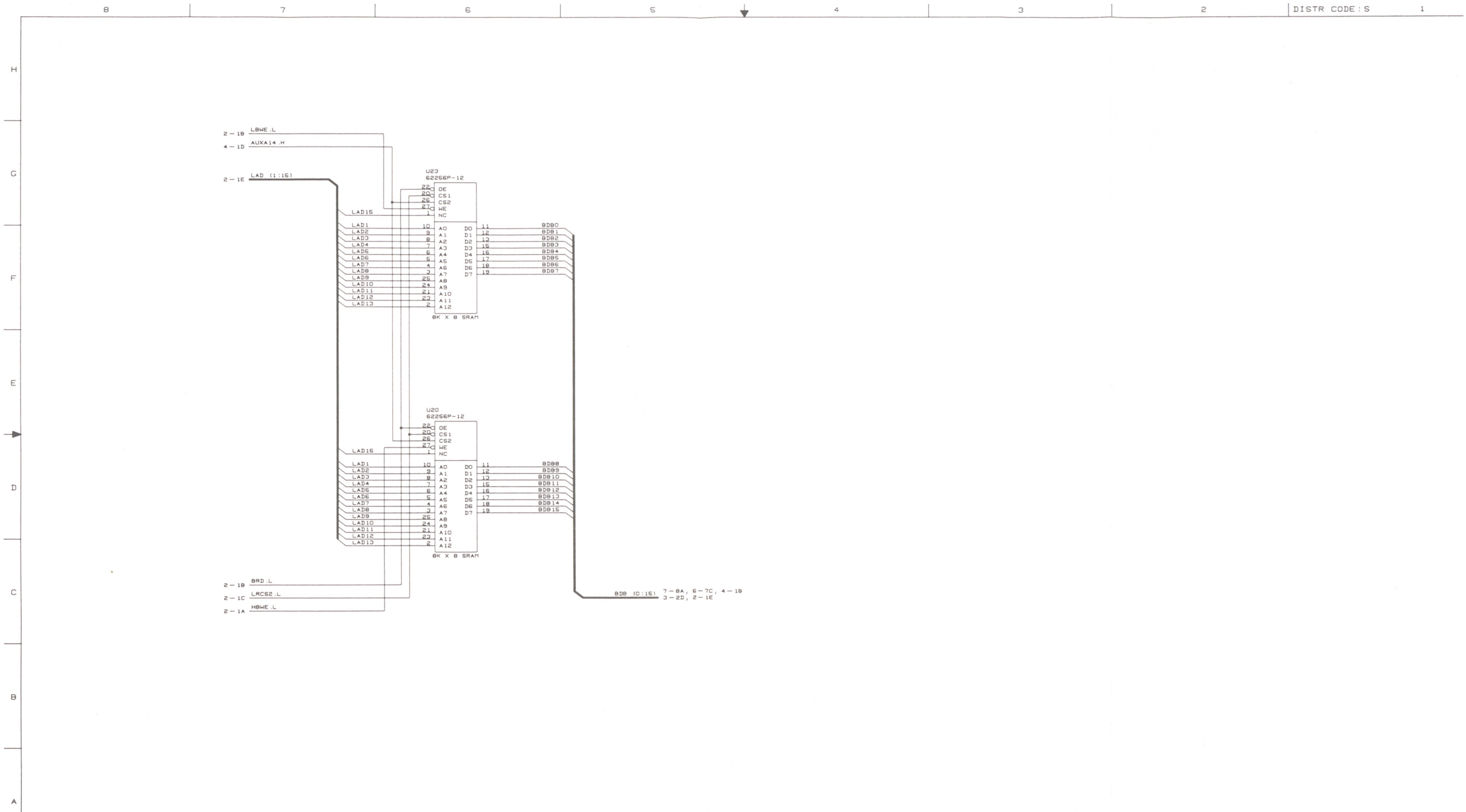


Schematic No. 1431027A.  
8 Channel ILC PWA  
(Sheet 3 of 8)

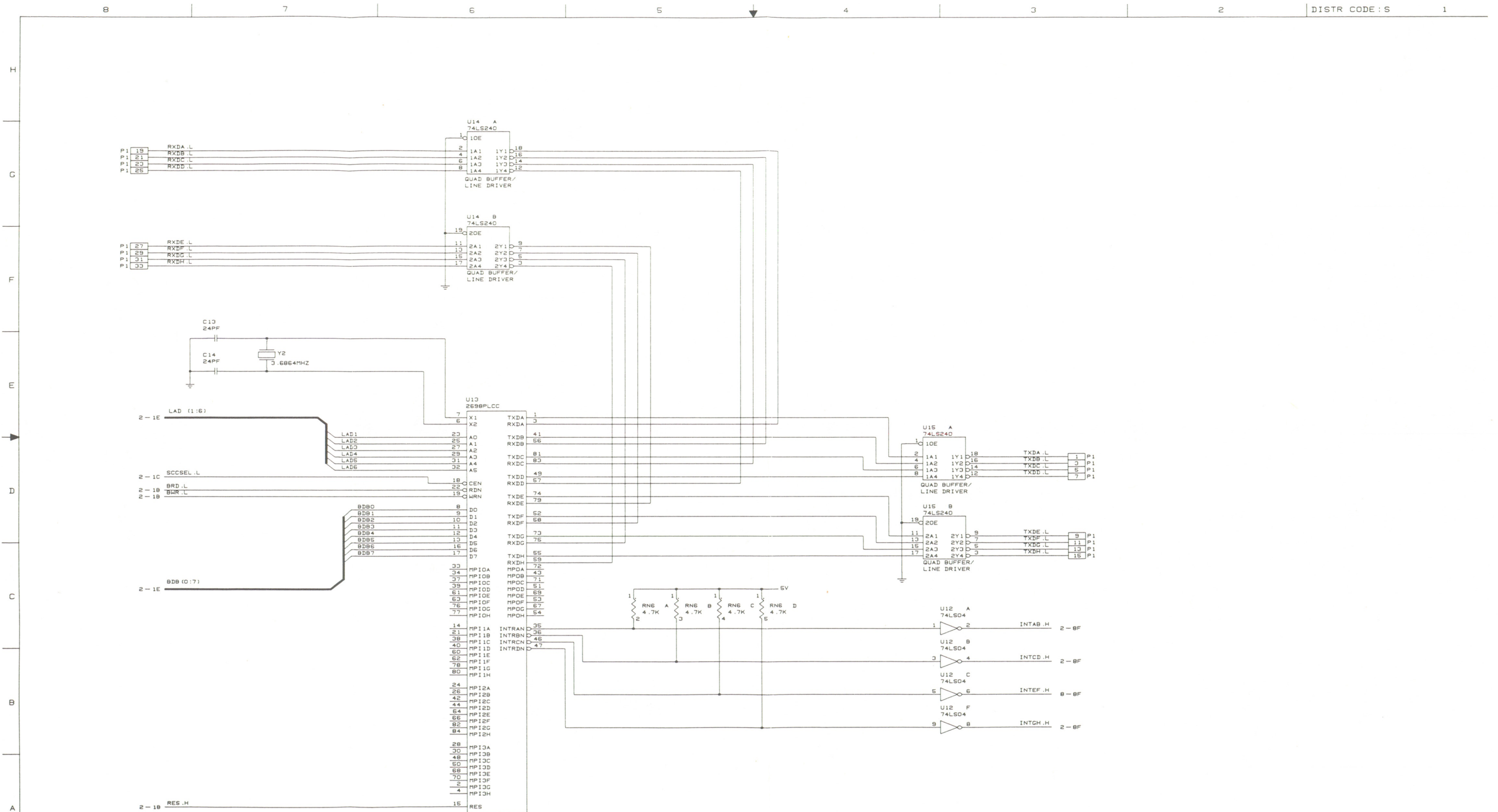




Schematic No. 1431027A.  
8 Channel ILC PWA  
(Sheet 4 of 8)



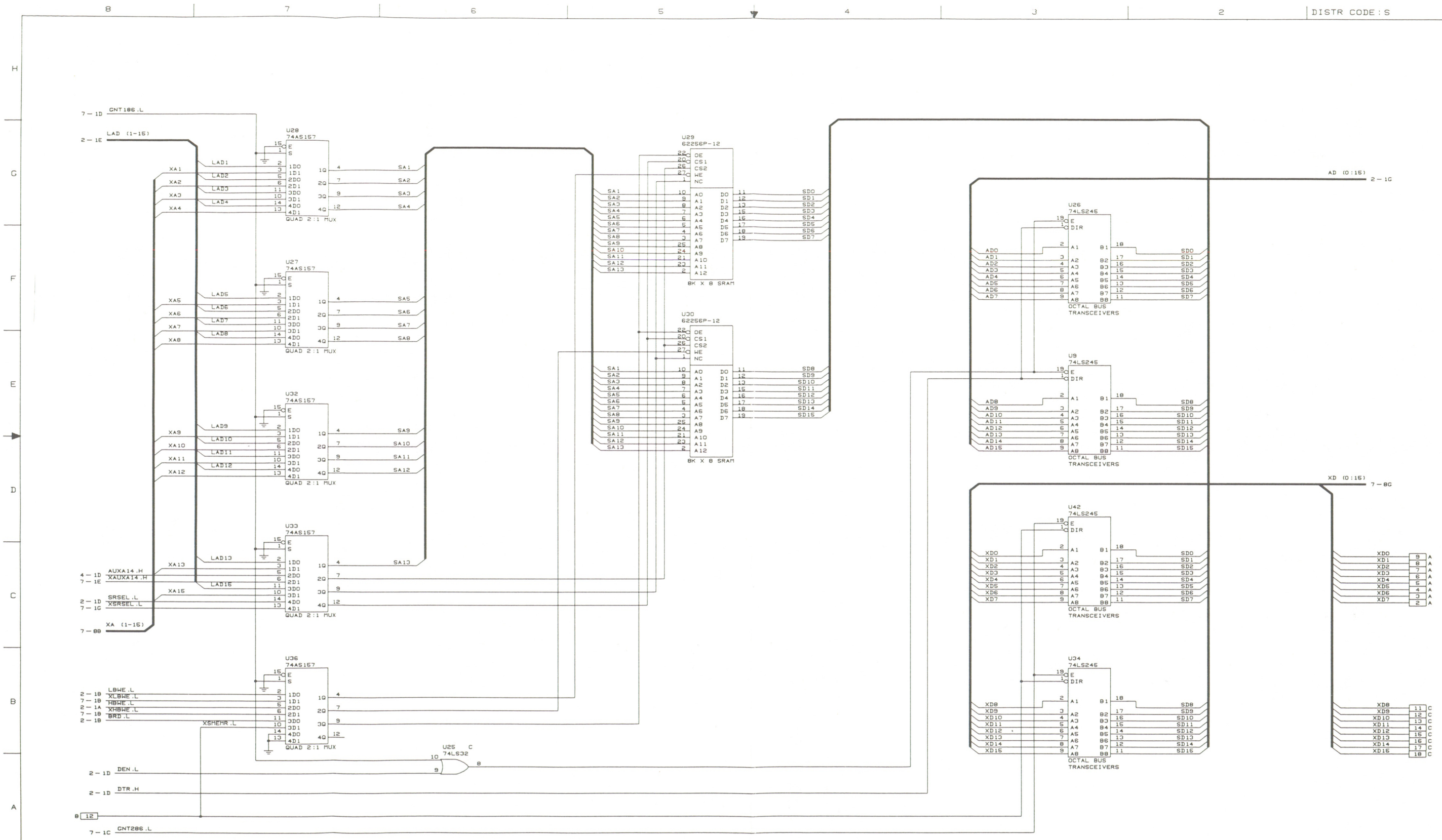
Schematic No. 1431027A.  
8 Channel ILC PWA  
(Sheet 5 of 8)



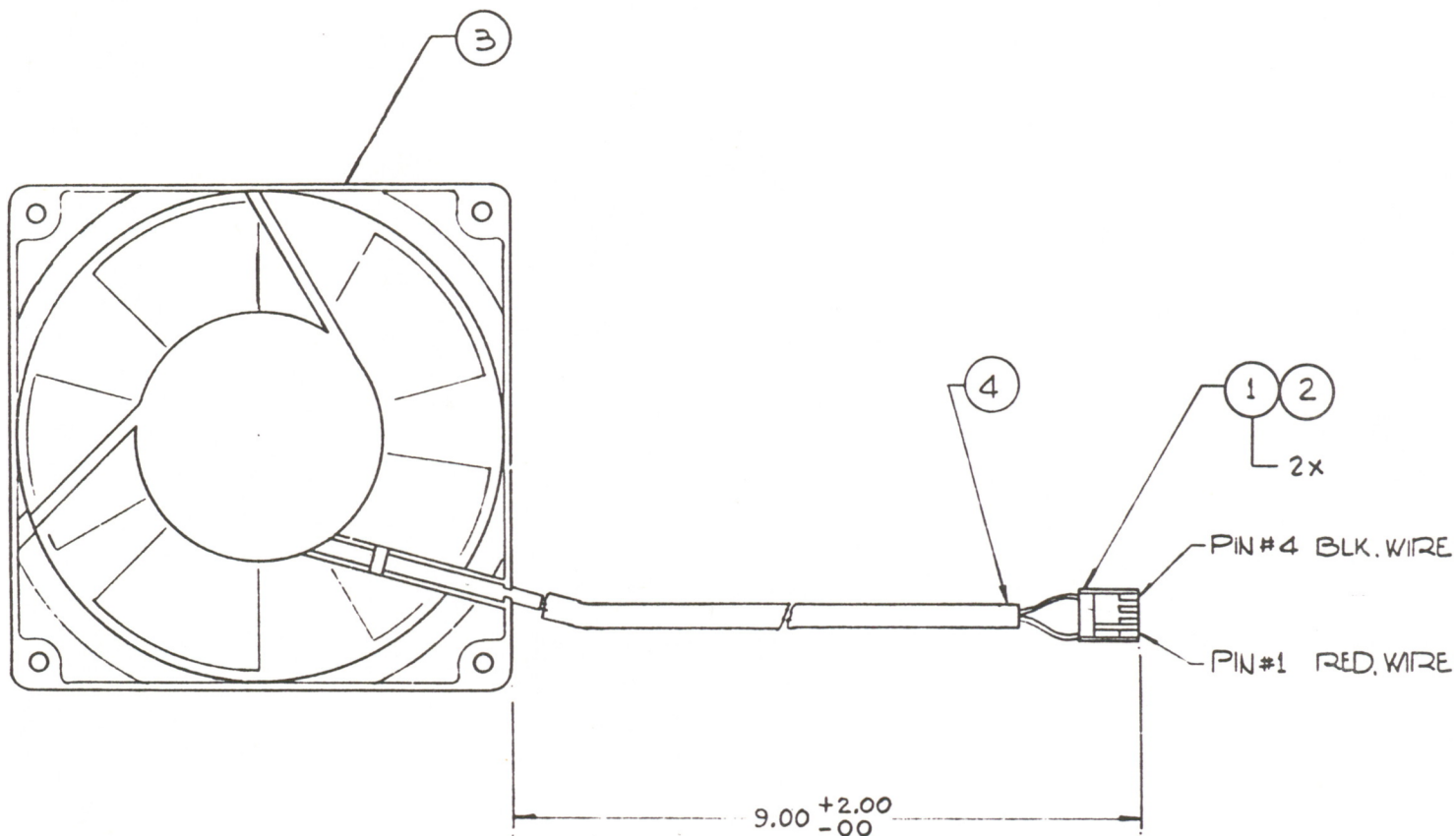
Schematic No. 1431027A.  
8 Channel ILC PWA  
(Sheet 6 of 8)







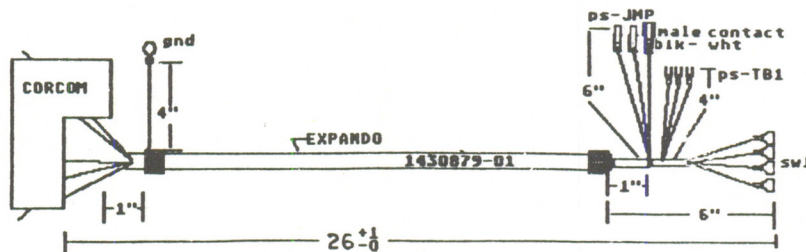
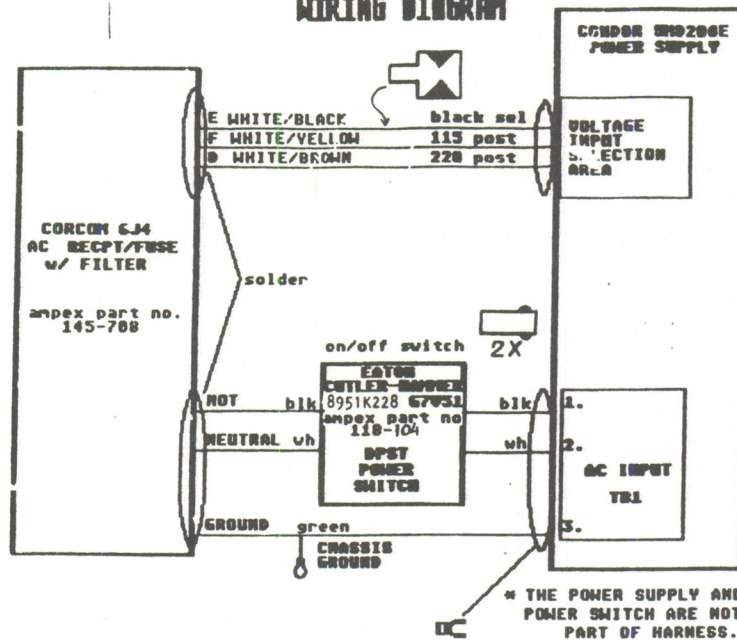
Schematic No. 1431027A.  
8 Channel ILC PWA  
(Sheet 8 of 8)



AR	4	CD 726	SLEEVING
1	3	591-344	12VOLT DC FAN MFG. SANYO
1	2	177-099	CONN. PART, RECEPT, RECT, 4POS
2	1	167-962	CONN. PART, CONTACT, SPRING, 24-20 AWG WIRE
01	ITEM NO	PART NUMBER	DESCRIPTION

Assembly No. 1431721-01A. DC Fan

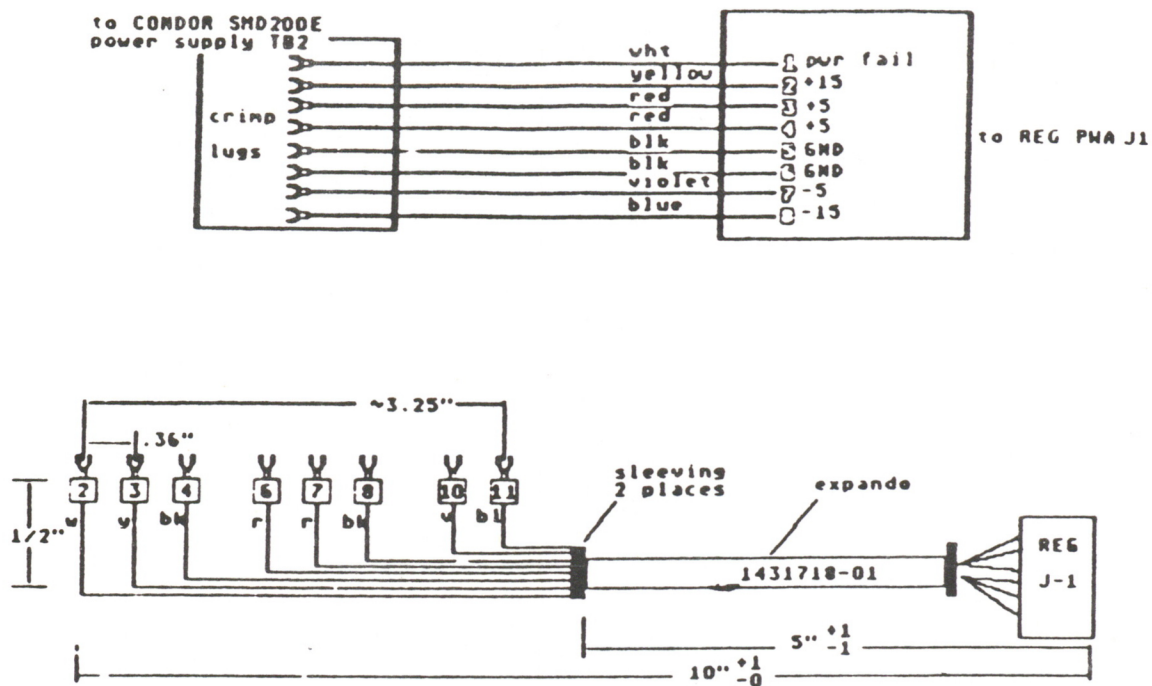
## WIRING DIAGRAM



ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	145-708	CORCOM 6J4 AC RECPT/FUSE w/ FILTER		1
2		WIRE white/BLK 18AWG , stranded		AR
3		WIRE white/VEL 18AWG , stranded		AR
4		WIRE white/BRN 18AWG , stranded		AR
5		WIRE black 18 AWG , stranded		AR
6		WIRE white 18 AWG , stranded		AR
7		WIRE green 18 AWG , stranded		AR
8	171-117	CRIMP CONNECTOR spade	psi T81	3
9	171-005	CRIMP CONNECTOR "0"	gnd	1
10	172-363	CRIMP CONNECTOR .25 SLIP-ON over lug	sw-1	4
11	187-028	CRIMP CONNECTOR .093 male MOLEX	psi ac	1
12	141-868	RECEPTACLE 1 circuit MOLEX REF: ITEM 11	psi ac	1
13	177-369	CRIMP CONNECTOR .093 female MOLEX	psi ac	2
14	141-867	PLUG 1 circuit MOLEX REF: ITEM 13	psi ac	2
15	CD 726	SLEEVEING insulated heatshrink		A/R
16	302-335	TIEMRAP small		A/R
17	202-066	LABEL		A/R
18	600-623	EXPANDO		A/R

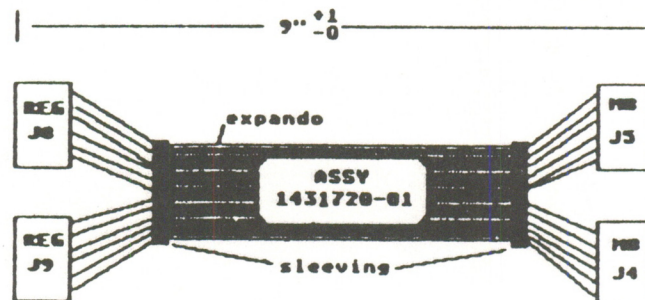
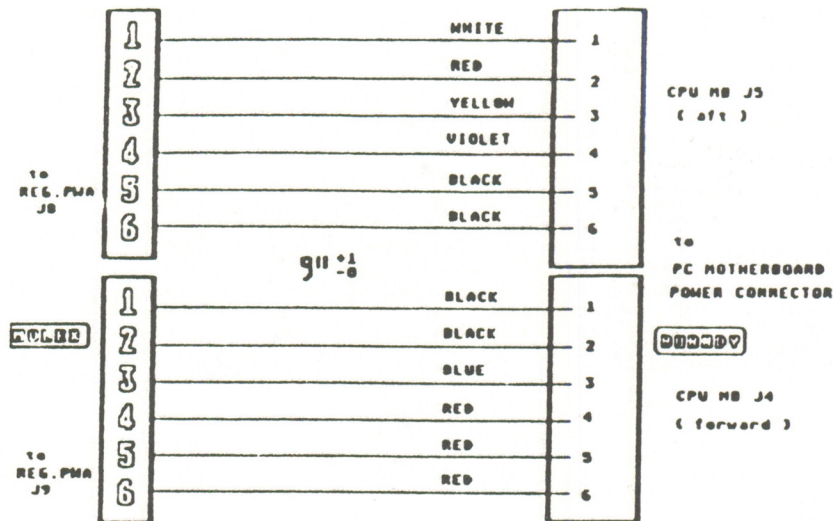
## Assembly No. 1430879-01E. AC Harness





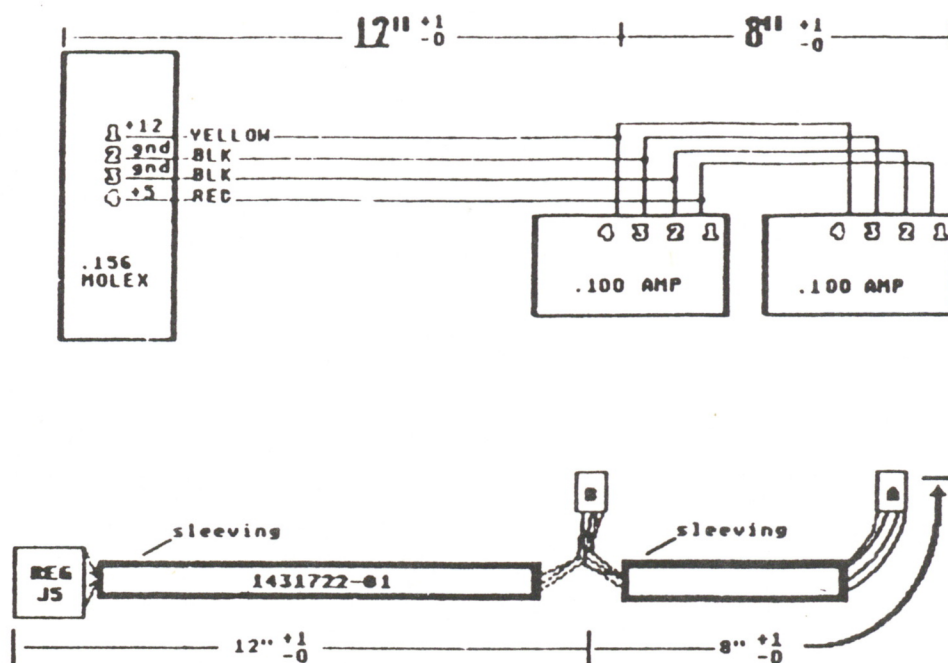
ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	140-336	CONN HOUSING MOLEX .156 P pos.	REG J1	1
2	167-540	CONTACTS MOLEX		8
3	171-004	TERMINAL U-spade CRIMP insul.		8
4	CD 739	WIRE 18 GA BLUE	TB2-11	AR
5		WIRE 18 GA VIOLET	TB2-10	AR
6		WIRE 19 GA BLACK	TB2-3	AR
7		WIRE 18 GA RED	TB2-6,7	AR
8		WIRE 22 GA WHITE	TB2-2	AR
9		WIRE 18 GA YELLOW	TB2-3	AR
10	CD-726	SLEEVING SHRINK		AR
11	600-624	EXPANDO		AR
12	202-066	LABEL		AR

Assembly No. 1431718-01B. Power Supply/Regulator Harness



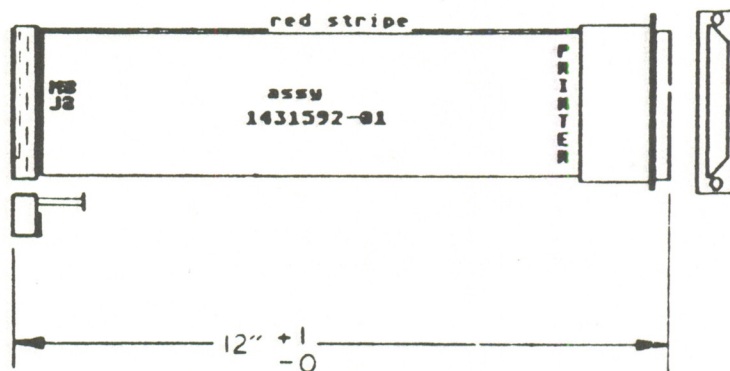
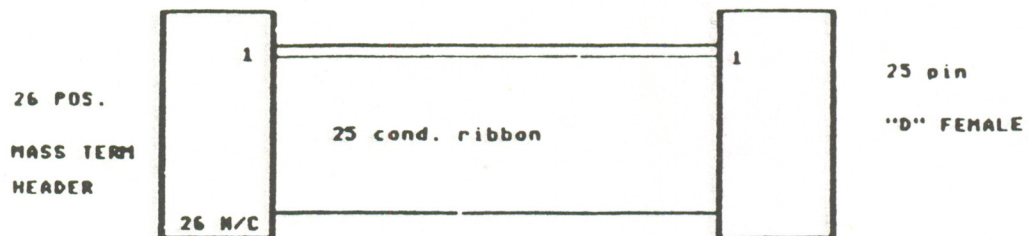
ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	167-553	CONN HOUSING .156 MOLEX 6 pos.	REG. J8, CPU	2
2	167-540	CONTACT MOLEX		12
3	177-976	CONN HOUSING BURNDY GTC6P-1 6 pos.	Mo. 4, MB J5	2
4	177-977	CONTACT BURNDY PCK18-2TR9		12
5		WIRE 18 GA BLUE		AR
6		WIRE 18 GA VIOLET		AR
7		WIRE 18 GA BLACK		AR
8		WIRE 18 GA RED		AR
9		WIPE 18 GA YELLOW		AR
10		WIRE 22 GA WHITE		AR
11	600-624	EXPANDO		AR
12	CD-726	SLEEVING shrink		AR
13	202-066	LABEL		AR

Assembly No. 1431720-01B. Regulator/PC Motherboard Power Cable



ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	177-321	CONN HOUSING AMP#171022-4	A, B	2
2	177-322	CONN CONTACT AMP#170262-1		8
3	167-970	CONN HOUSING MOLEX#09-50-3011	REG J5	1
4	167-540	CONN CONTACT MOLEX#08-56-0105		4
5		WIRE red 24 AWG, stranded		AR
6		WIRE yellow 24 AWG, stranded		AR
7		WIRE black 24 AWG, stranded		AR
8	CD-726	SLEEVING shrink		AR

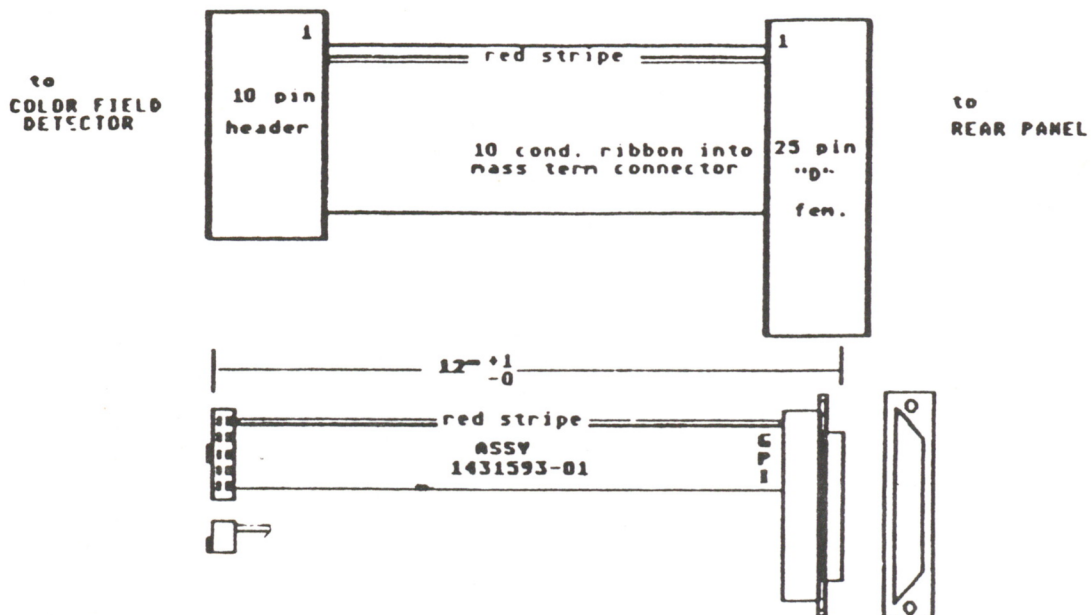
Assembly No. 1431722-01B. Disk Drive Power Harness



ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	636-321	RIBBON CABLE 25 cond.		AR
2	141-456	CONN 25 pos. "D" FEMALE	PRINTER	1
3	140-704	CONN 26 pos. HEADER MASS TERM.	MS J2	1
4	202-065	LABEL		AR

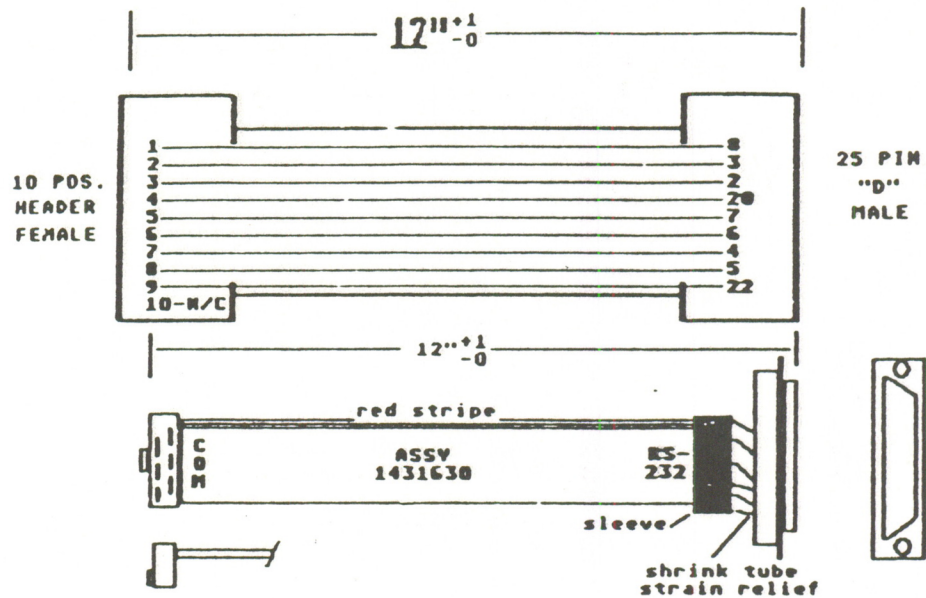
Assembly No. 1431592-01C. Printer Cable





ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	141-862	CONN HOUSING 10 pos. mass term.		1
2	616-653	RIBBON CABLE 10 COND.		AR
3	141-456	CONNECTOR 25 pos. 'D' female mass term.	201	1
4	202-066	LABEL		AR

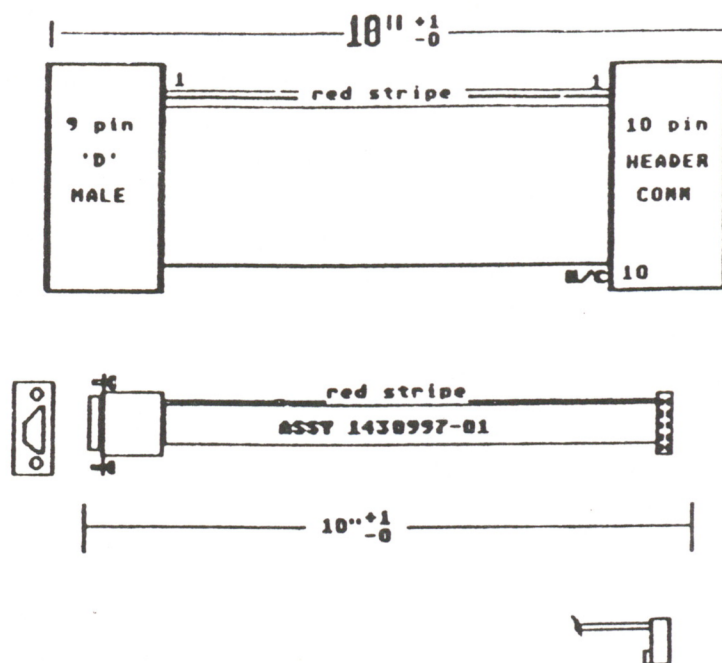
Assembly No. 1431593-01C. GPI Cable



ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	141-862	CONN HOUSING 10 pos. MASS TERM.	COM	1
2	616-653	CABLE 10 COND. RIBBON		AR
3	145-219	CONN 'D' 25 pos. male solder	RS 232	1
4	CD-726	SLEEVING shrink		AR
5	202-066	LABEL		AR

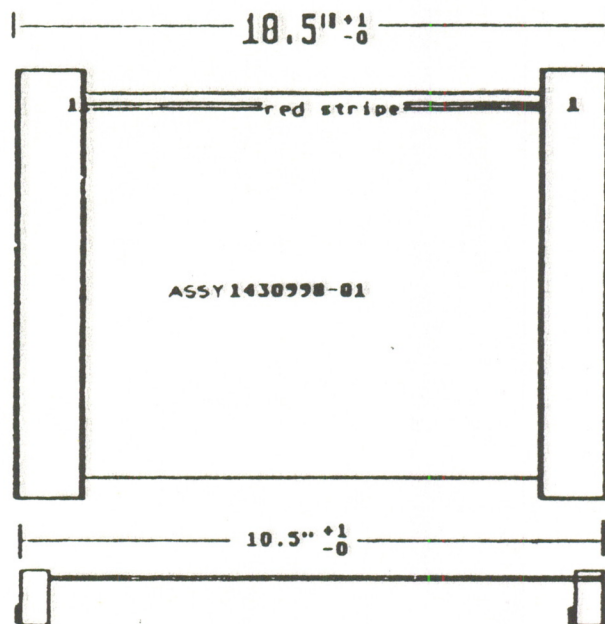
Assembly No. 1431630-01C. RS232 Cable





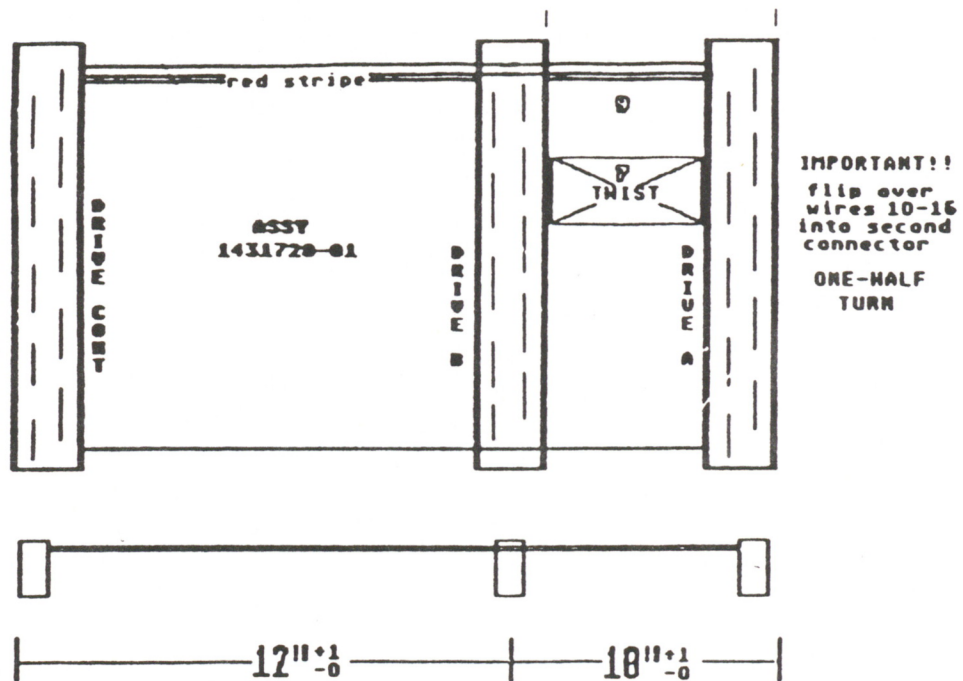
ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	141-070	CONN 9 pin 'D' MALE		1
2	636-312	CABLE RIBBON 9 COND.		AR
3	167-169	CAPTIVE SCREW KIT ( 4-40 )		1
4	141-062	CONN HOUSING 10 pos. MASS TERM		1
5	202-066	LABEL		AR

Assembly No. 1430997-01A. Computer Monitor Cable



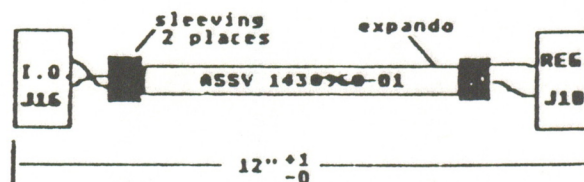
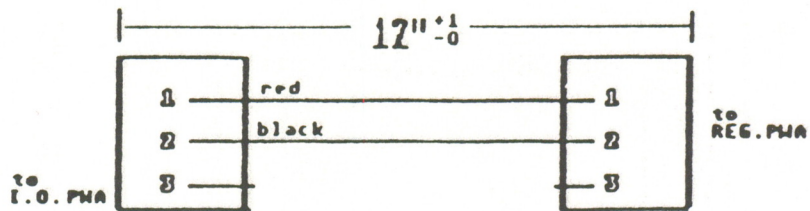
ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	616-724	RIBBON CABLE 34 cond.		AR
2	141-916	CONNECTOR 34 pos.		2
3	202-063	LABEL		AR

Assembly No. 1430998-01A. Serial Communications Cable



ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	616-724	RIBBON CABLE 34 cond.		24"
2	141-172	CONNECTOR 34 pos.		3
3	202-063	LABEL		AR

Assembly No. 1431728-01C. Disk Drive Cable



ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	167-339	CONN HOUSING .156 MOLEX 3 pos.		2
2	167-540	CONTACT MOLEX		4
3	CD-739	WIRE 18 AWG BLK		AR
4		WIRE 18 AWG RED		AR
5	CD-726	SLEEVING shrink		AR
6	600-624	EXPANDO		AR
7	202-066	LABEL		AR

Assembly No. 1430960-01A. Input/Output Regulator Cable

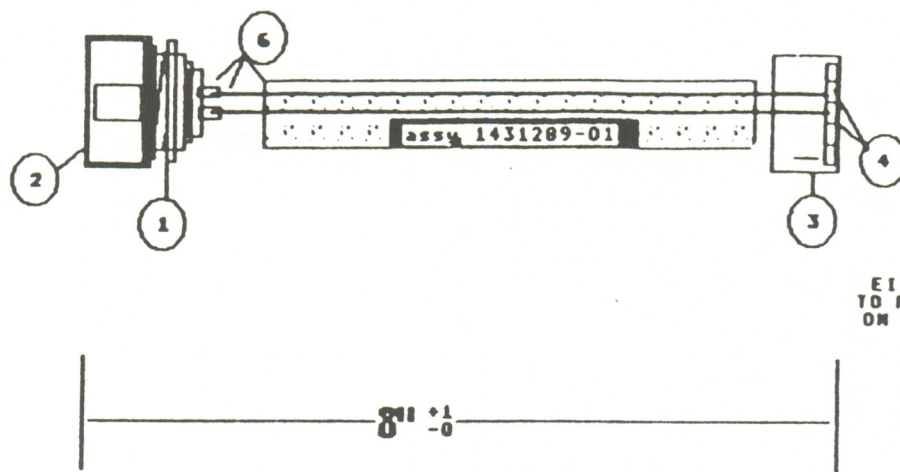
**1430636-01**

## DOOR ASSEMBLY

REV. C

[illegible]

LM-430636

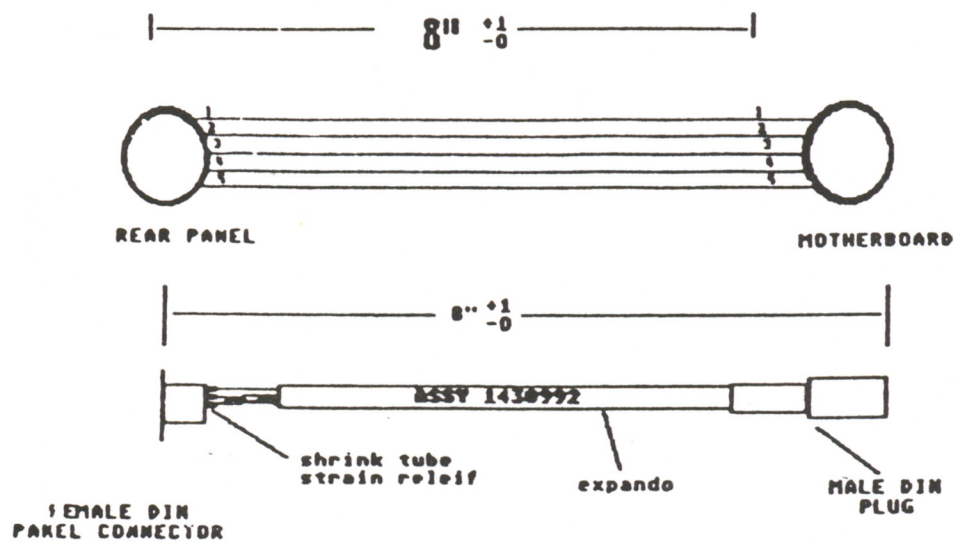


NOTE!  
EITHER WIRE  
TO POS. 3 & 4  
ON CONNECTOR

ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	118-112	SWITCH non. SPST	RESET	1
2	121-424	MOUNTING GUARD		1
3	167-853	CONNECTOR HOUSING 3 pos.	MPJ12	1
4	167-129	CONTACT for conn.		2
5	CD-739	WIRE AWG 24 gauge		AR
6	CD-726	SLEEVING shrink		AR
7				
8	202-066	LABEL		AR

Assembly No. 1431289-01A. Reset Switch Cable





ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	145-659	PANEL CONNECTOR 5 pos. DIN 100°		1
2	141-930	PLUG CONNECTOR 5 pos. MALE DIN 100°		1
3	CD-739	WIRE 22 GA. AWG		AR
4	CD-726	SLEEVING shrink		AR
5	600-623	EXPANDO		AR
6	202-066	LABEL		AR

Assembly No. 1430992-01B. Diagnostic Port Cable



ITEM NO	PART NUMBER	DESCRIPTION	REF DESIG	QTY REQD PER DASH NUMBER											
				-01											
1															
2															
3	1430958	SCHEMATIC	(A)												
4	1430883-01	BRACKET, DAUGHTER BOARD MOUNTING	1												
5															
6	064-653	CAPACITOR, CER., 0.1uF, 50V, ±20% C1-28,30,31	30												
7	064-754	CAPACITOR, CER., .01uF, 50V, ±5% C33	1												
8															
9	037-749	CAPACITOR, TANT., 68uF, 15V, ±10% C29,32	2												
10															
11	135-994	HEADER ASSY, 5 POSTS J3	1												
12	135-108	HEADER ASSY, 16 POSTS, RT ANGLE J4	1												
13	135-991	HEADER ASSY, 50 POSTS, RT ANGLE J2	1												
14	140-437	CONN, SIGNAL, CRT, PLUG J5,6	2												
15															
16	595-001	CRYSTAL, CRT OSC, 4.000 MHZ Y1	1												
17															
18	051-770	FERRITE-CHOKE L1,2	2												
19															
20	003-489	INTEGRATED CIRCUIT, 74MCT04 U12,16	2												
21	003-822	74MCT74 U5,18	2												
22	003-017	74MCT393 U6	1												
23															
24	003-817	74MCT08 U11	1												
25	004-636	74MCT32 U21	1												
26	005-187	74MCT175 U1	1												
27															
28	003-149	74MCT193 U2,8	2												
29	004-370	74MCT373 U4,13,15,20	4												
30	003-238	74MCT244 U24,25	2												
31	003-816	74MCT245 U23,26	2												
32															
33	590-957	INTEGRATED CIRCUIT, 6116AE3 U3,9	2												
34	1430947-01	PROM ASSEMBLY, ADDRESS DECODER #1, (005-837) 20L10A U17	1												
35	1430948-01	PROM ASSEMBLY, ADDRESS DECODER #2, (005-837) 20L10A U19	1												
36	1430949-01	PROM ASSEMBLY, ADDRESS DECODER #3, (005-837) 20L10A U22	1												
37	1430954-01	PROM ASSEMBLY, DUMPSTER STATE MACHINE, (590-953) 28L22 U7	1												

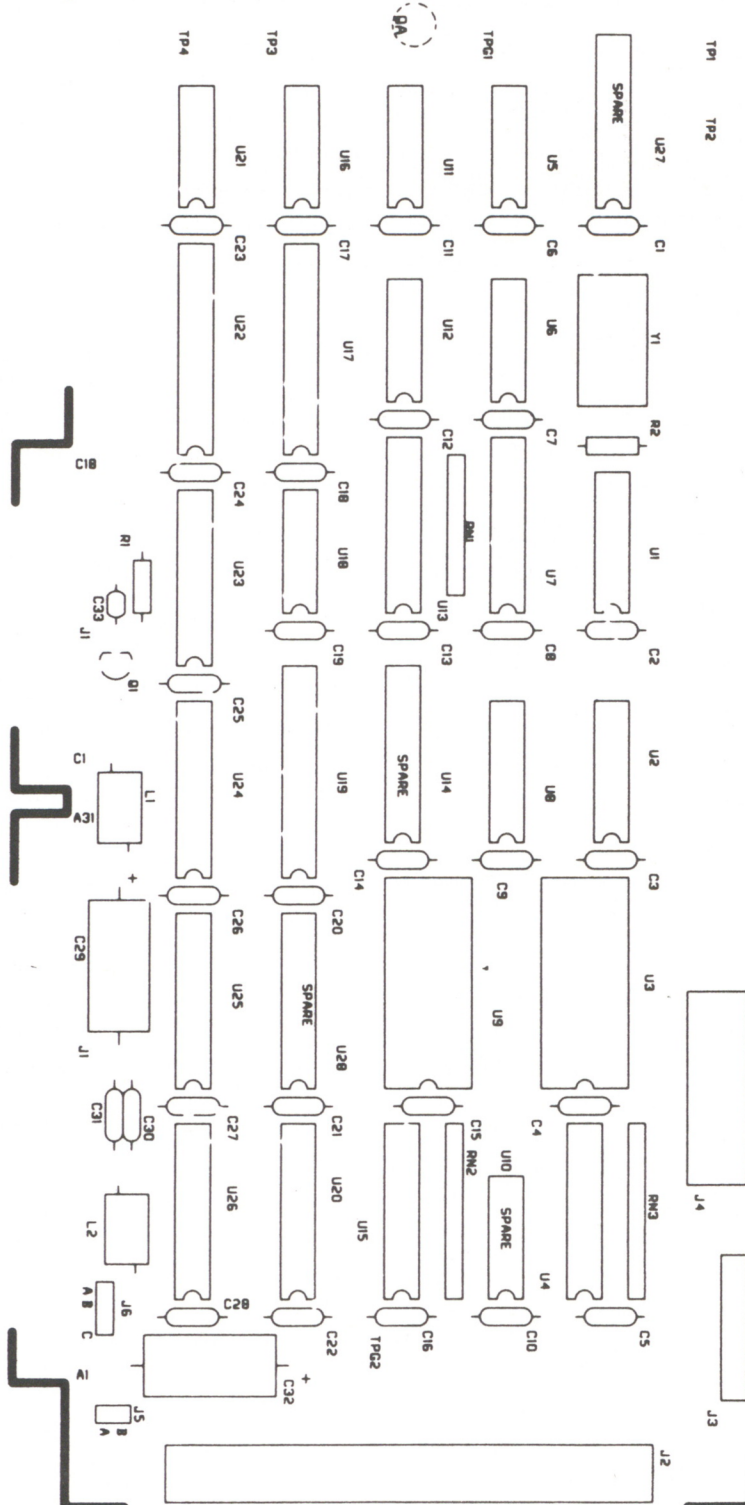
LM-1430956

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PWA 1430956  
SCH 1430958  
A/W ISSUE ①

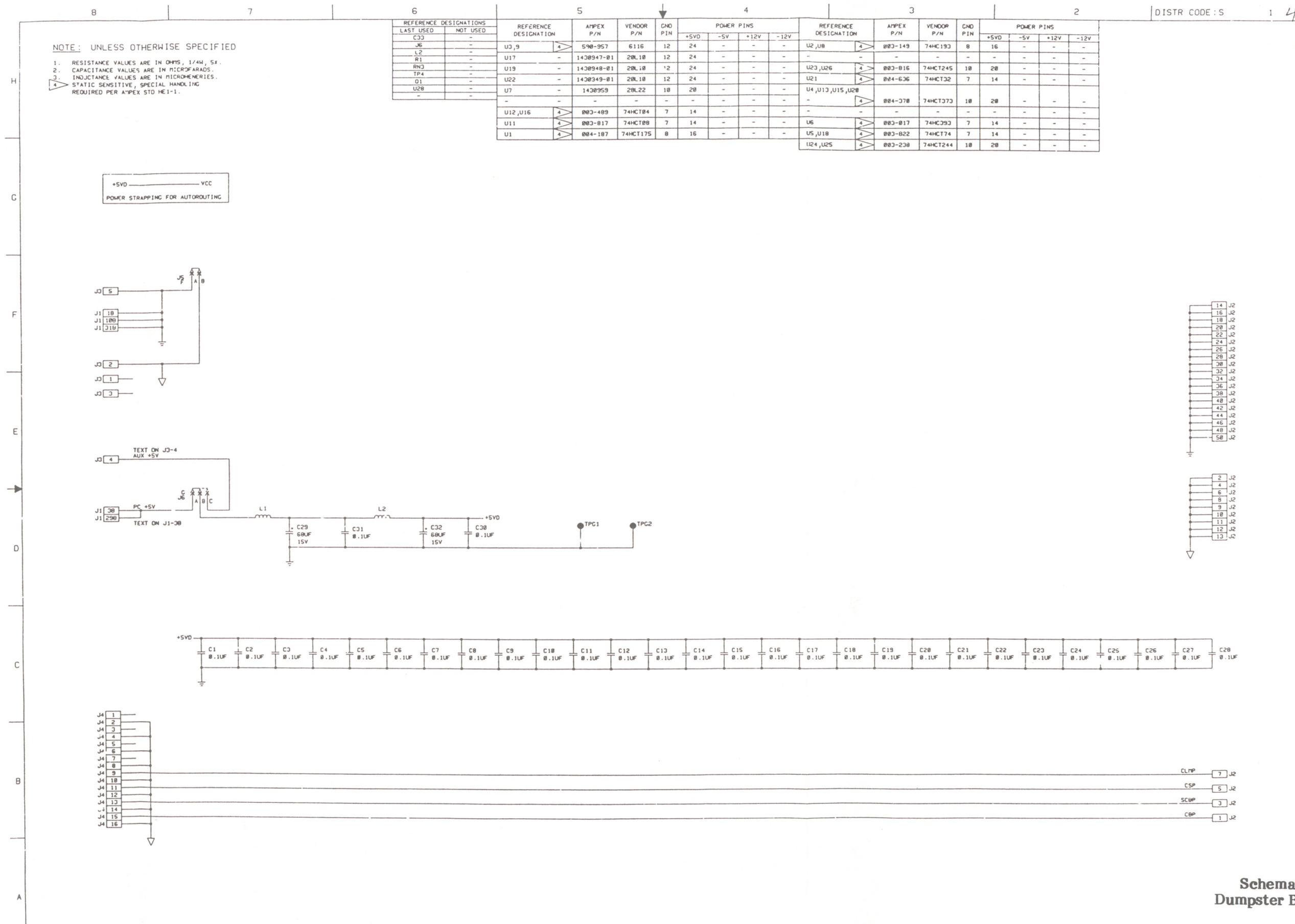
# DUMPSTER BUS INTERFACE

AMPEX

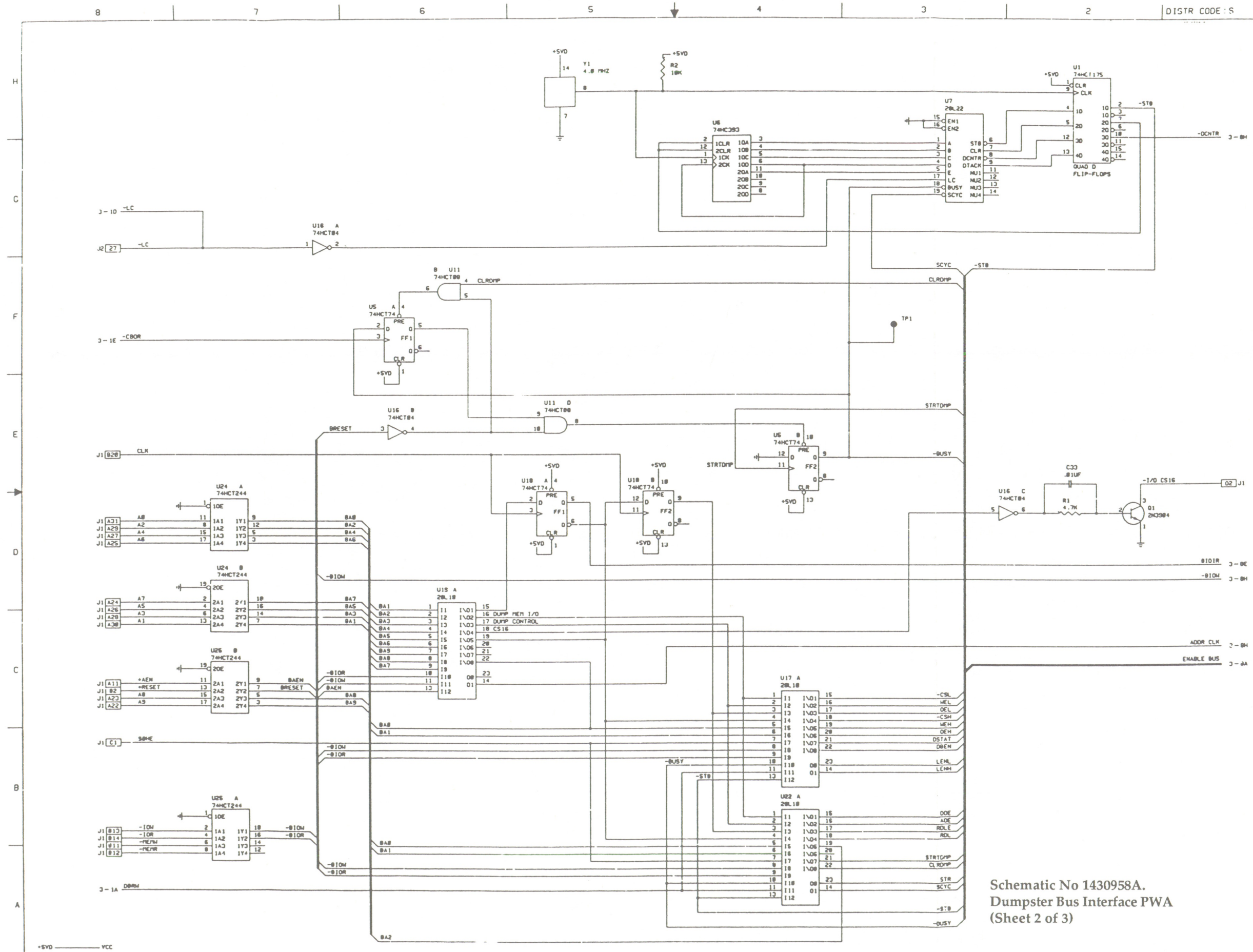


Assembly No. 1430956-01G. Dumpster Bus Interface PWA

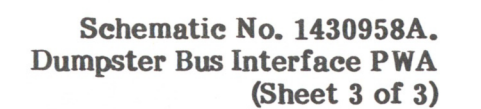




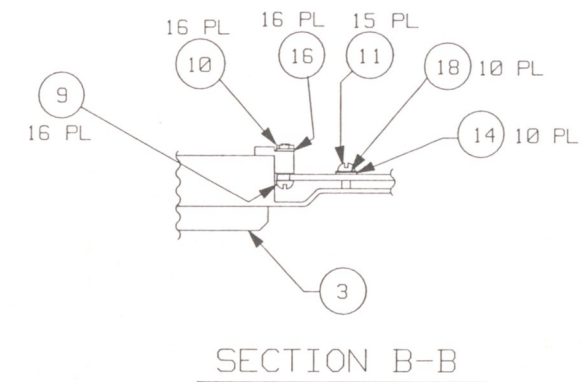
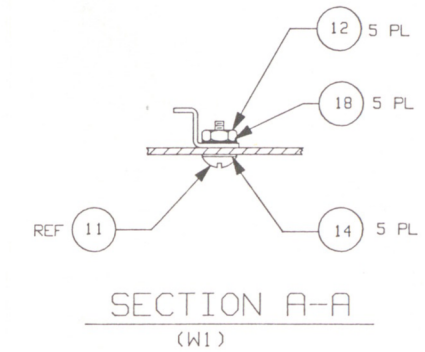
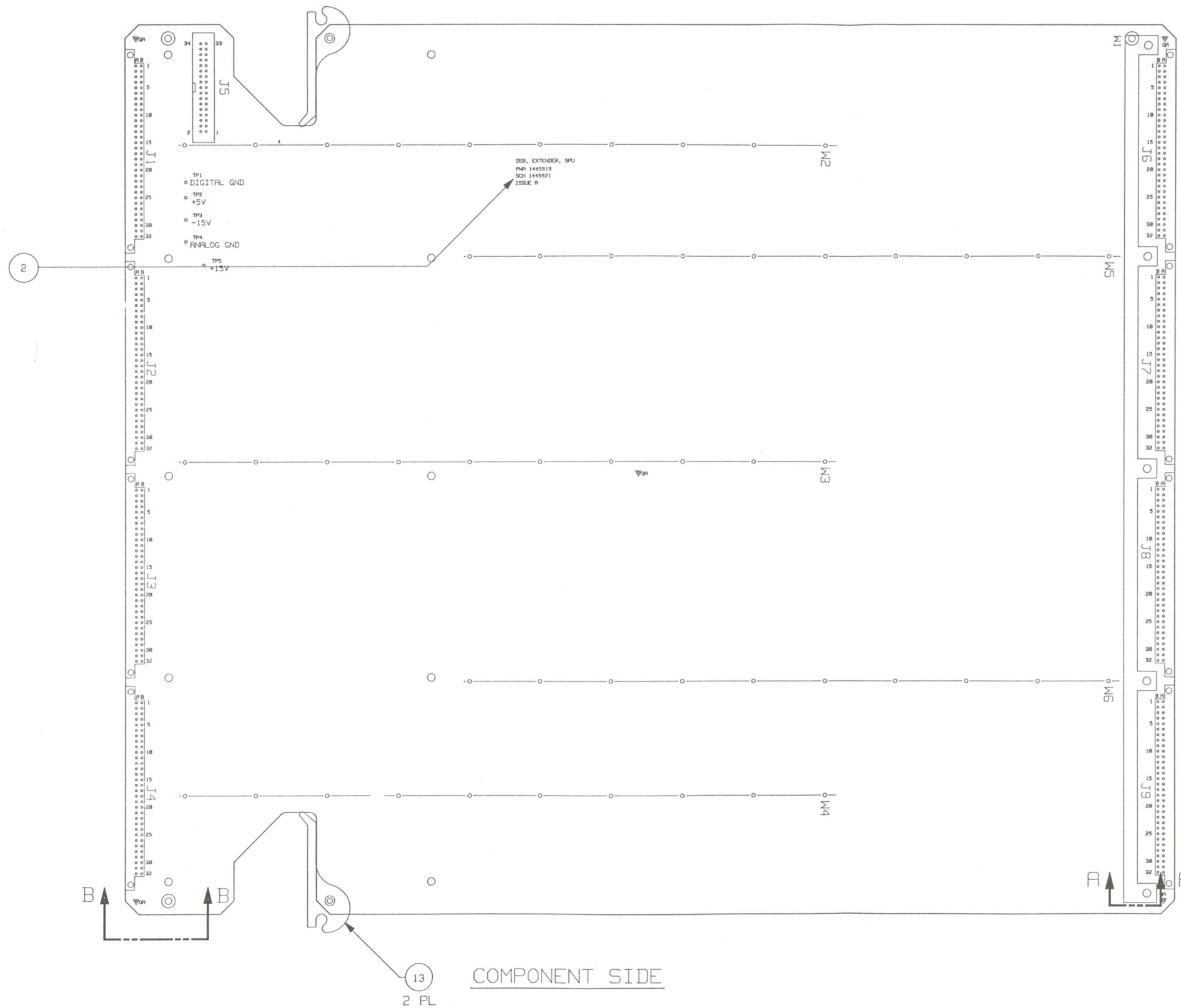
Schematic No. 1430958A.  
 Dumpster Bus Interface PWA  
 (Sheet 1 of 3)





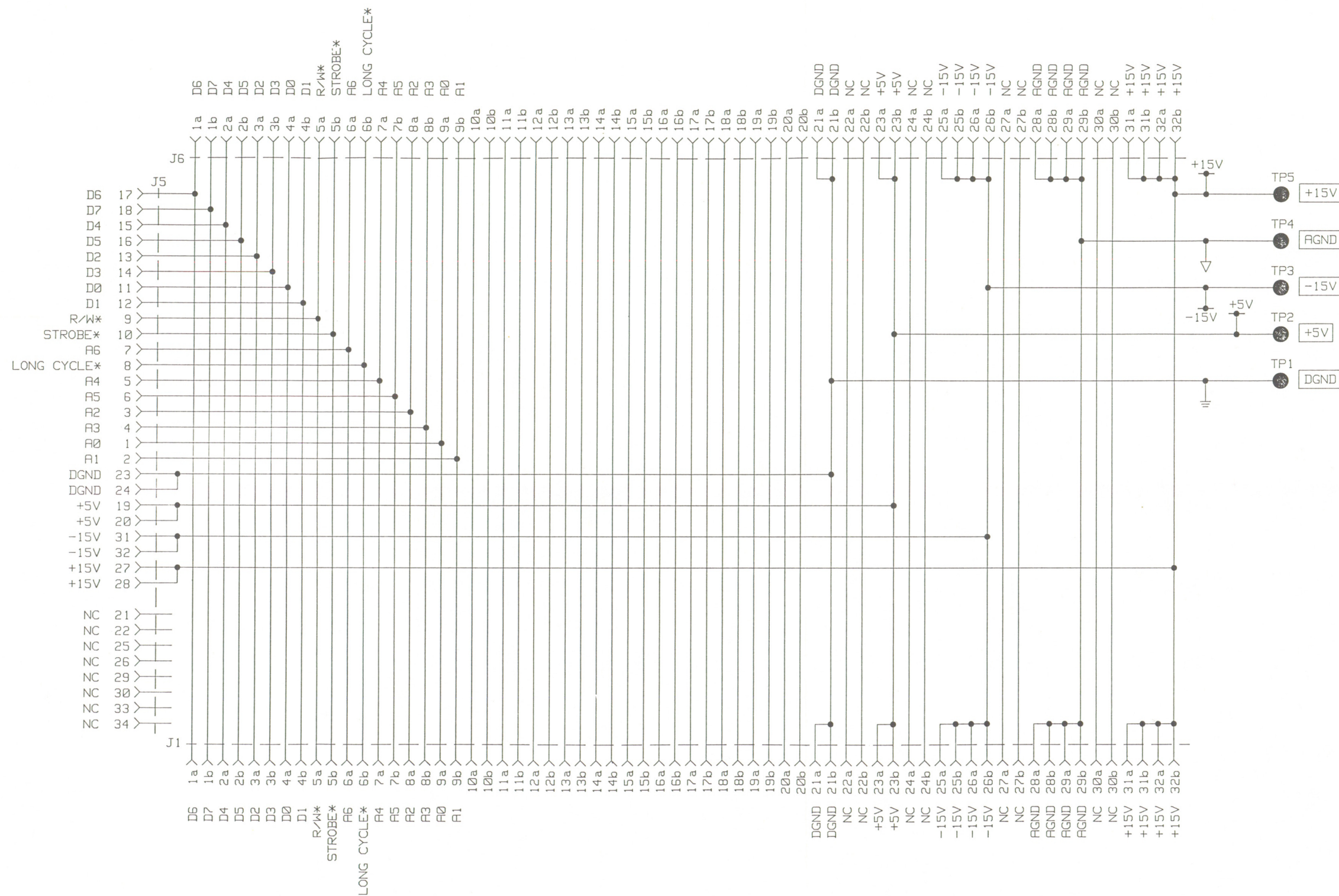


ITEM NO.	PART NUMBER	D E S C R I P T I O N	NOTE	REF DESIG	QTY
	*	indicates a NOTE see last page of List Of Materials			
1					
2	1445921-01	SCHEMATIC			REF
3	1443757-01	EXTENDER SUPPORT, QUANTUM			1
4	1445398-01	BUS BAR	W2-6		5
5	1445943-01	CARD STIFFENER, QUANTUM	W1		1
6	141-129	CONNECTOR, 64 PIN MALE, ANGLED	J6-9		4
7	141-146	CONNECTOR, 64 PIN FEMALE, ANGLED	J1-4		4
8	135-451	CONNECTOR, HEADER, 34 POS.	J5		A/R
9	204-759	SCREW, PPH, M2.5 X 12MM LG	J1-4,6-9		16
10	204-757	NUT, HEX, M2.5 X .04	J1-4,6-9		16
11	207-097	SCREW, PPH, M3 X 6MM LG	REF:ITEM 3,W1		15
12	204-171	NUT, HEX, M3 X .05	W1		5
13	530-512	CARD EJECTOR			2
14	204-159	WASHER, FLAT, M3	REF:ITEM 3,W1		15
15	187-259	TEST POINT	TP1-5		5
16	502-023	WASHER, INT. TOOTH M2.5	J1-4,6-9		16
17	530-579	CARD GUIDE			2
18	204-153	LOCKWASHER, #3, INTERINAL	REF:ITEM 3, W1		15



Assembly No. 1445919-01A.  
SPU Extender PWA





NOTES: (UNLESS OTHERWISE SPECIFIED)  
1. PWA NO. IS 1445921-01.

REFERENCE DESIGNATOR	
LAST USED	NOT USED
J9	
W6	
TP5	

REFERENCE 1445919 AND LV 1431596 FOR NHAs.

**Schematic No 1445921A.**  
**SPU Extender PWA**  
**(Sheet 1 of 2)**

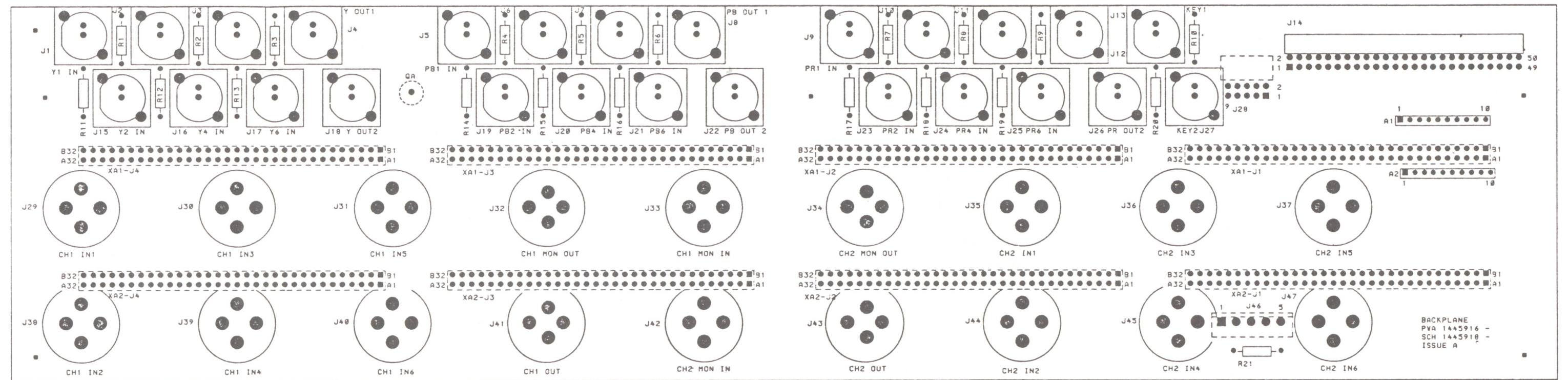
Schematic No. 1445921A.  
SPU Extender PWA  
(Sheet 2 of 2)

A B C D



ITEM NO.	PART NUMBER	D E S C R I P T I O N	REF DESIG	QTY
1				
2	1445918-01	SCHEMATIC		REF
3	062-836	RESISTOR, 75 OHMS, 1%, 1/4 WATT	R1-9, 11-20	19
4	066-830	RESISTOR, 10K, 5%, 1/4 WATT	R21	1
5	039-294	RESISTOR NETWORK, 1K, 10 PIN, SIP	A1,2	2
6				
7	141-130	CONNECTOR, 64 POS.	XA1-J1,XA1-J2 XA1-J3,XA1-J4 XA2-J1,XA2-J2 XA2-J3,XA2-J4	8
8	140-664	CONNECTOR, 1 COAX SOCKET	J1-13,15-26	25
9	140-667	CONNECTOR, AUDIO RECEPTICAL, 3 SOCKET	J29-31,33,35- 40,42,44,45 47	14
10	140-670	CONNECTOR, AUDIO RECEPTICAL, 3 PIN	J32,34,41,43	4
11	135-117	CONNECTOR, 10 POS.	J28	1
12	135-999	CONNECTOR, 5 POS. STRAIGHT	J46	1
13	135-993	CONNECTOR, 50 POS.	J14	1



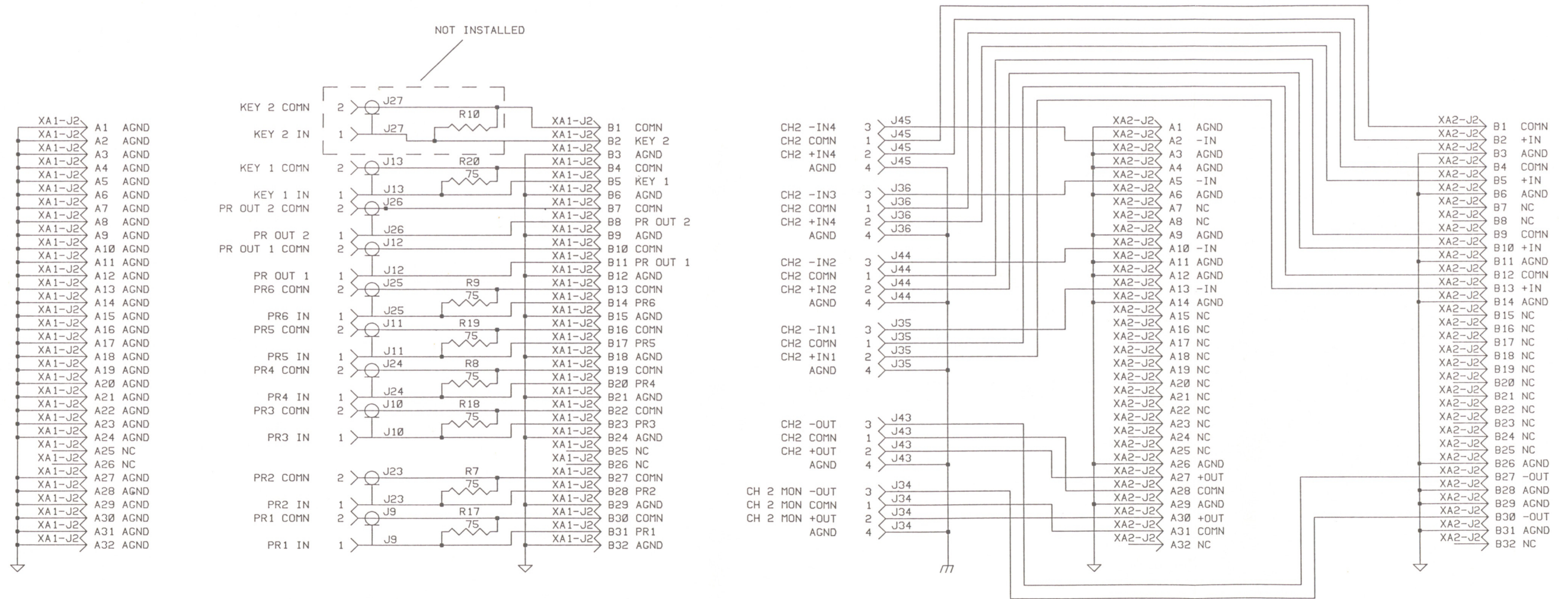


Assembly No. 1445916-01A.  
ACE 25 Backplane PWA

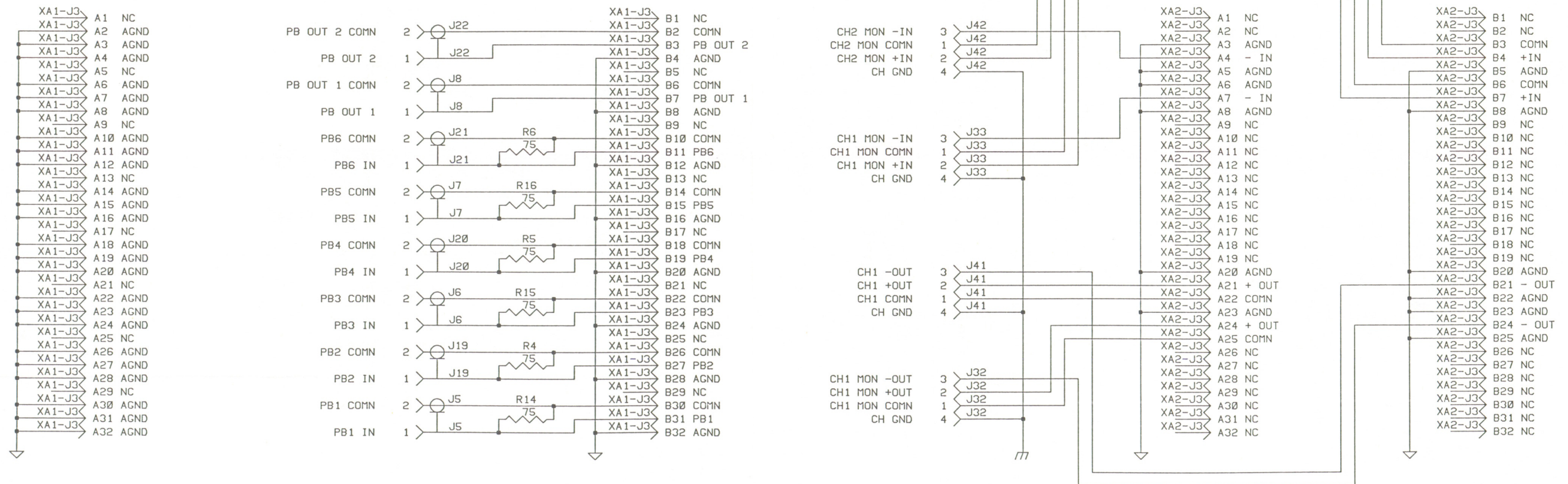






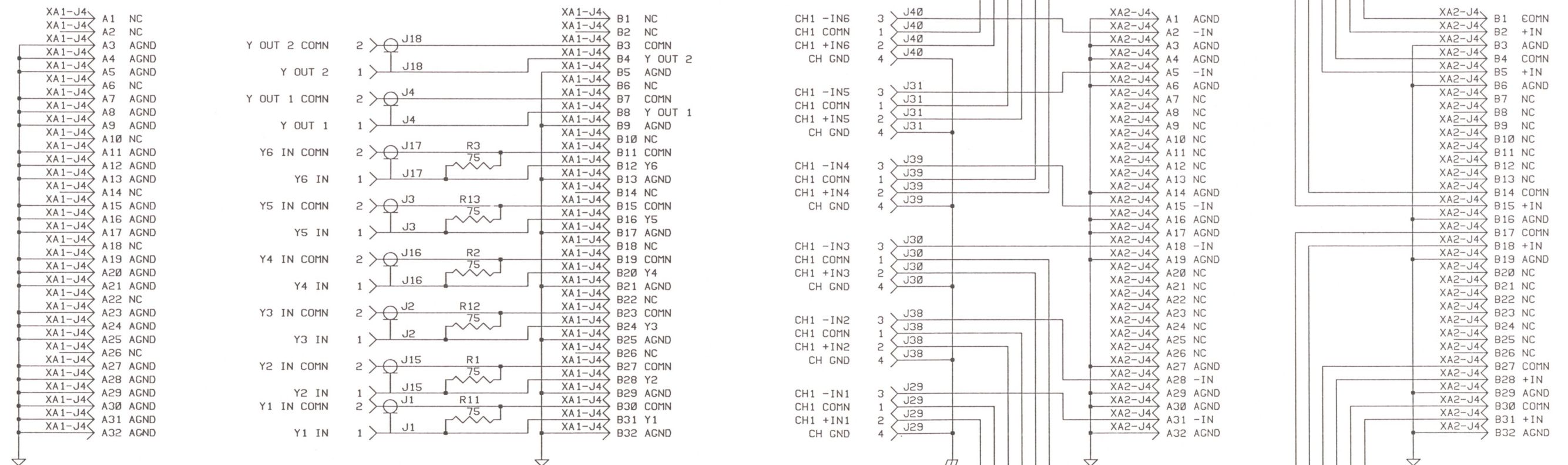


**Schematic No. 1445918A.**  
**ACE 25 Backplane PWA**  
 (Sheet 2 of 4)

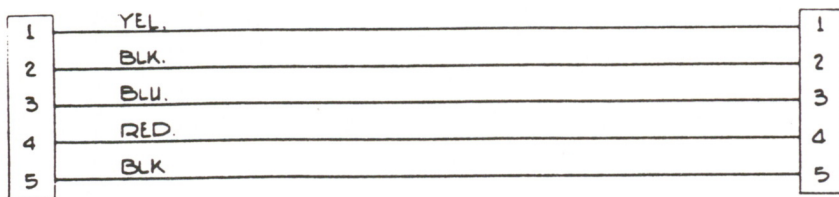


**Schematic No. 1445918A.**  
**ACE 25 Backplane PWA**  
**(Sheet 3 of 4)**

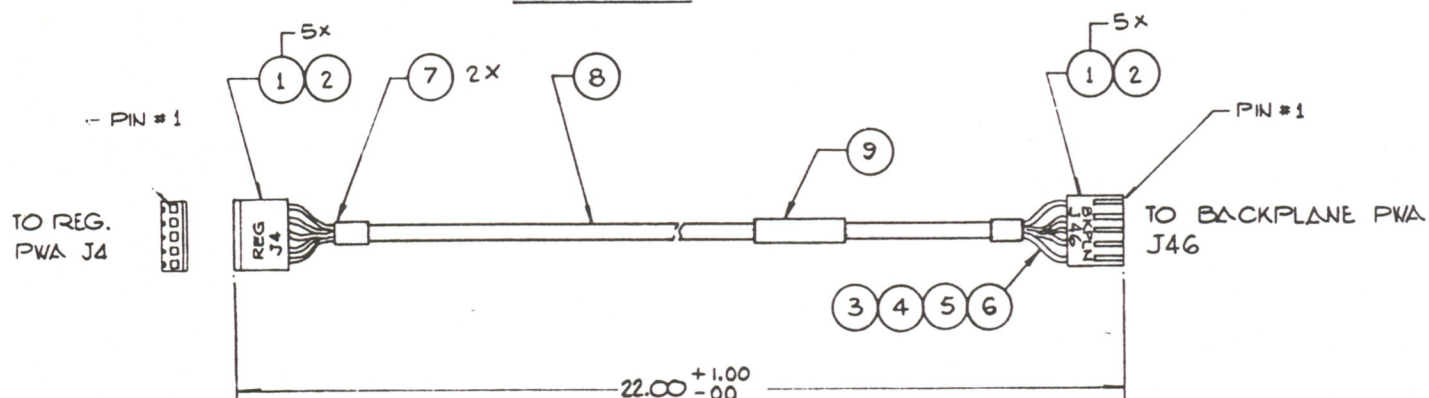




**Schematic No. 1445918A.**  
**ACE 25 Backplane PWA**  
 (Sheet 4 of 4)



### SCHEMATIC

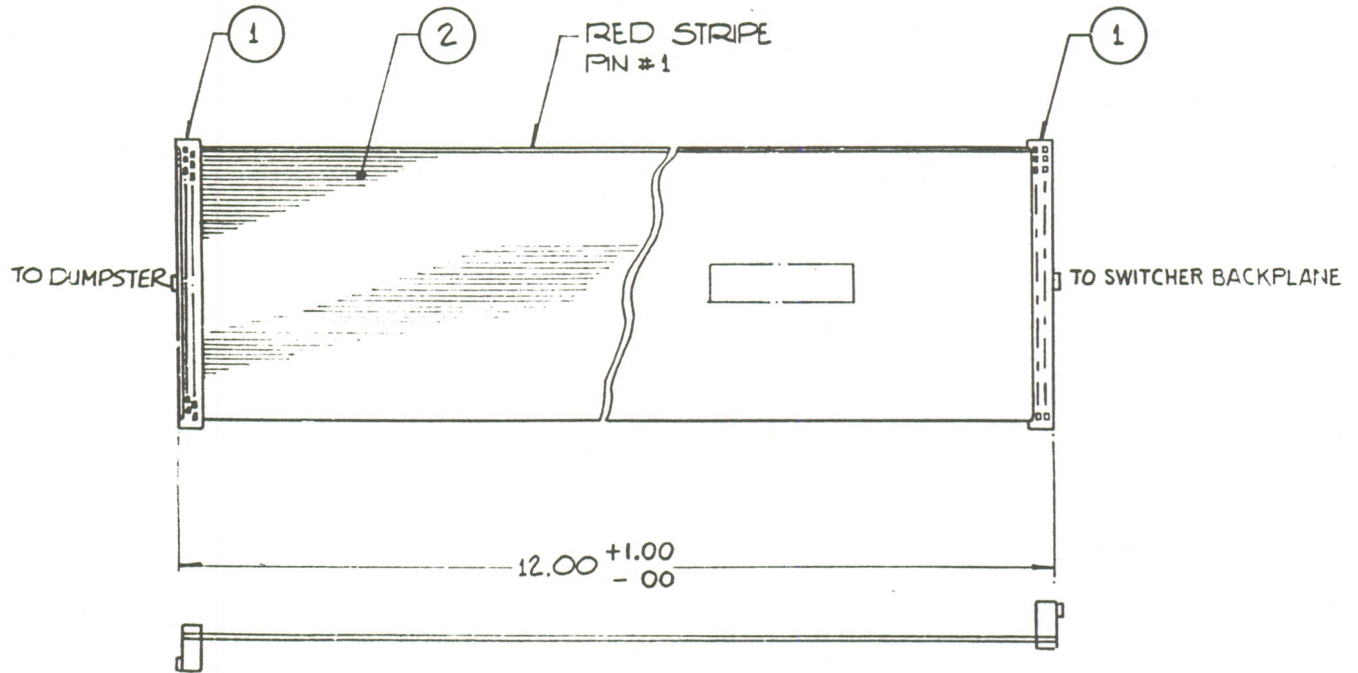


AR	9	202-066	LABEL
AR	8	600-623	EXPANDO
AR	7	CD726	SLEEVING, SHINKABLE
AR	6	CD739	WIRE, STRD, INS, 18AWG, BLU.
AR	5		WIRE, STRD, INS, 18AWG, BLK.
AR	4		WIRE, STRD, INS, 18AWG, YEL.
AR	3	CD739	WIRE, STRD, INS, 18AWG, RED.
2	2	167-572	CONN, PART, PLUG, RECT, 5POS
10	1	167-540	CONN, PART, CONTACT, 18-24AWG WIRE
01	ITEM NO.	PART NUMBER	DESCRIPTION

Assembly No. 1431719-01B. Regulator-Backplane Power Cable



SCHEMATIC



AR	3	202-065	LABEL	
AR	2	616-692	CABLE RIBBON, 50 COND, 28AWG	
2	1	141-861	CONN, 50 POS, RIBBON MASS TERM.	
01	ITEM NO	PART NUMBER		DESCRIPTION

Assembly No. 1431726-01B. Dumpster-Backplane Cable



[illegible]

ITEM NO.	PART NUMBER	D E S C R I P T I O N	NOTE	REFERENCE DESIGNATOR	QTY
	*	indicates a NOTE see last page of List Of Materials			
1					
2	1445930-01	SCHEMATIC			REF
3	066-938	RESISTOR, 47 OHMS, 5%, 1/4 W		R322,429,575	3
4	076-026	RESISTOR, 3.9 OHMS, 5%, 1/4 W		R98,99,317	3
5	076-045	RESISTOR, 75 OHMS, 1%, 1/4 W		R227,228,430,431	6
				573,574	
6	066-812	RESISTOR, 100 OHMS, 5%, 1/4W		R326,340,423,556	6
				576,595	
7	062-847	RESISTOR, 100 OHMS, 1%, 1/4W		R103,104,111,112	22
				115,116,143,144	
				147,148,169,170	
				171,174,206-208	
				211,212,215,218	
				219	
8	066-662	RESISTOR, 200 OHMS, 5%, 1/4W		R67,70,73,76,78	14
				80,82,84,184,186	
				193,195,198,201	
9	066-663	RESISTOR, 220 OHMS, 5%, 1/4W		R100,297,315	3
10	066-859	RESISTOR, 240 OHMS, 5%, 1/4W		R334,343,357,363	33
				374,385,397,413	
				419,439,447,464	
				470,480,491,500	
				514,523,531,540	
				551,601-612	
11	066-815	RESISTOR, 300 OHMS, 5%, 1/4 W		R8-10,12,18,20,26	88
				28,34,36,42,44,	
				50,52,58,60,66,	
				69,72,75,86,88,	
				90,92,97,110,114	
				122,124,125,127	

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LM- 1445928-01	A
				PAGE 2 OF 8	
ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
				133,135,142,146 156,158,159,161 168,173,180,182 183,188,190,194 197,203,205,210 214,216,217,226 230,264,281,286 298,302-305,323 337,368,378,382 395,428,432,442 446,466,477,478 486,501,517,526 527,538,569,571 572,593,594	
12	066-818	RESISTOR, 470 OHMS,5%, 1/4 W		R13,21,29,37,45, 53,61,108,123, 128,136,153,157 162,181,231,239 245,250,251,257 268,271,277,278 287,312,314,324 327,345,358 366,379,383,399 416,422,436,444 449,463,476,479 487,503,515,524 529,541,552,563 570,579,597,253	56
13	066-820	RESISTOR, 750 OHMS, 5%,1/4 W		586	1
14	066-665	RESISTOR, 1K, 5%, 1/4 W		R246,272,300,321 336,372,387,437 472,482,493,521 533,578,266	15
15	062-624	RESISTOR, 1K, 1%, 1/4 W		R259,261	2
16					
17	066-824	RESISTOR, 1.5K, 5%, 1/4 W		R263	1
18	066-826	RESISTOR, 2K, 5%, 1/4 W		R252,279,330,347 339,355,365,401, 411,417,420,421, 451,461,505,512, 543,550,553,560, 600	21
19					
20	192-651	RESISTOR, 2.1K, 0.1%, 1/8 W	* 1	R224	1
21	066-689	RESISTOR, 2.2K, 5%, 1/4 W		R331,424,577	3
22	066-928	RESISTOR, 2.4K, 5%, 1/4 W		R105,296,328,332 390,425,558,561	8
23	066-666	RESISTOR, 2.7K, 5%, 1/4 W		R11,19,27,35,43, 51,59,68,71,74, 77,87,89,91,93, 102,106,109,113 121,126,134,141	54

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LM- 1445928-01	A
				PAGE 3 OF 8	
ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
				145,155,160,167 172,179,185,189 191,196,199,202 204,209,213,233 282,289,295,299 325,376,381,427 433,474,485,489 530,568,581 341,342,391,392 554,557	6
24	066-667	RESISTOR, 3K, 5%, 1/4 W		R236	1
25	062-639	RESISTOR, 3.01K, 1%, 1/4 W		R249,276,318	3
26	066-863	RESISTOR, 3.6K, 5%, 1/4 W		R267,590-592	4
27	041-511	RESISTOR, 3.9K, 5%, 1/4 W		R308	1
28	066-512	RESISTOR, 4.22K, 1%, 1/4 W		R107,154,241,242 274,275,377,380 384,435,475,483 488,525,596,528	16
29	066-828	RESISTOR, 4.3K 5%, 1/4 W		R101,301,307,309 310,584	6
30	062-968	RESISTOR, 4.99K, 1%, 1/4 W		R17,25,33,41,49, 57,65,117,132, 140,149,166,175 244,290,360,369 394,440,469,496 499,518,536,567 588,247,284	28
31	066-842	RESISTOR, 5.1K, 5%, 1/4 W		R260,262	2
32	062-973	RESISTOR, 5.76K, 1%, 1/4 W		R237	1
33	062-954	RESISTOR, 3.16K, 1%, 1/4 W		R294,306	2
34	066-453	RESISTOR, 6.49K, 1%, 1/4 W		R320,5	2
35	062-976	RESISTOR, 7.15K, 1%, 1/4 W		R220	1
36	066-711	RESISTOR, 7.5K, 5%, 1/4 W		R319	1
37	066-822	RESISTOR, 910, 5%, 1/4 W		R583	1
38	066-513	RESISTOR, 8.66K 1%, 1/4 W		R283	1
39	066-670	RESISTOR, 9.1K, 5%, 1/4 W		R1,15,23,31,39,47 55,63,120,130, 138,152,164,178, 229,234,265, 291,329,333,338, 362,389,396,414, 426,445,467,494, 497,537,559,562, 564,589	35
40	066-830	RESISTOR, 10K, 5%, 1/4 W		R2,4,94,96,293	5
41	062-983	RESISTOR, 10K, 1%, 1/4 W	* 1	R222,225	2
42	079-974	RESISTOR, 10K, 0.1%, 1/8 W		R585	1
43	066-831	RESISTOR, 11K, 5%, 1/4 W		R223	1
44	192-654	RESISTOR, 12.1K, 0.1%, 1/8 W	* 1	R316	1
45	066-856	RESISTOR, 15K, 5%, 1/4 W		R582	1
46	062-998	RESISTOR, 18.7K, 1%, 1/4 W		R14,22,30,38,46, 54,62,119,129,	25
47	066-712	RESISTOR, 22K, 5%, 1/4 W			



AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LM- 1445928-01	A
				PAGE 4 OF 8	
ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
48	066-160	RESISTOR, 6.04K, 1%, 1/4 W		137,151,163,177, 232,288,335,373, 386,438,471,481, 492,522,532,565 R3	1
49					
50	066-717	RESISTOR, 47K, 5%, 1/4 W		R344,359,367,398 415,443,448,465 502,516,539,555	12
51					
52	066-847	RESISTOR, 33K, 5%, 1/4 W		R240,254,258,269 580	5
53	066-183	RESISTOR, 60.4K, 1%, 1/4 W		R95	1
54	066-857	RESISTOR, 91K, 5%, 1/4 W		R346,356,364,400 412,418,450,462, 504,513,542,549	12
55	066-849	RESISTOR, 100K, 5%, 1/4 W		R79,81,83,85,187 192,200	7
56	066-060	RESISTOR, 26.1K, 1%, 1/4 W		R7	1
57	066-714	RESISTOR, 35.7K, 1%, 1/4 W		R6	1
58	066-012	RESISTOR, 40.2K, 1%, 1/4 W		R587	1
59	066-652	RESISTOR, 470K, 5%, 1/4 W		R16,24,32,40,48, 56,64,118,131, 139,150,165,176 235,292,311,361 370,393,441,468 495,498,519,535 566	26
60	-----	RESISTOR, A/R		R221	1
61					
62	075-432	RESISTOR VAR., 200, SIDE ADJ		R349,352,402,405 408,452,455,458 506,509,544,547	12
63	075-434	RESISTOR VAR., 500, SIDE ADJ		R371,375,388,434 473,484,490,520 534	9
64	075-565	RESISTOR VAR., 1K, SIDE ADJ.		R243,273	2
65	075-572	RESISTOR VAR., 10K, TOP ADJ.		R285	1
66	075-573	RESISTOR VAR., 20K, SIDE ADJ		R238,255,256,270 280	5
67	075-439	RESISTOR VAR., 50K, SIDE ADJ		R348,350,351,353, 354,403,404,406, 407,409,410,453, 454,456,457,459, 460,507,508,510, 511,545,546,548	24
68	075-571	RESISTOR VAR., 10K SIDE ADJ.		R248	1
69	039-399	RESISTOR NETWORK, MIXED VALUE 8 PIN SIP		A40,41,59	3
70	039-413	RESISTOR NETWORK, MIXED VALUE 8 PIN SIP		A43	1
71					

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LM- 1445928-01	A
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ITEM NO.	PART NUMBER	D E S C R I P T I O N	NOTE	REFERENCE DESIGNATOR	QTY
72					
73					
74	064-190	CAPACITOR, 2.2 +- .25pf, 100V CERAMIC		C278, 280, 303, 306, 333, 336, 359, 362, 389, 392, 419, 422	12
75	064-201	CAPACITOR, 3.3 +- .25pf, 100V CERAMIC		C81, 247, 253	3
76	064-202	CAPACITOR, 4.7 +- .5pf, 100V CERAMIC		C291, 315, 318, 347, 374, 377, 404, 407, 413	9
77	064-203	CAPACITOR, 5.6 +- .5pf, 100V CERAMIC		C82, 249, 254, 259, 269, 326, 438	7
78	064-204	CAPACITOR, 6.8 +- .5pf, 100V CERAMIC		C1, 462-464, 441	5
79	064-205	CAPACITOR, 8.2 +- .5pf, 100V CERAMIC		C258	1
80	064-208	CAPACITOR, 15pf, 100V, 5%, CERAMIC		C288, 297, 319, 344 354, 373, 384, 403 414	9
81	064-856	CAPACITOR, 22pf, 100V, 5%, CERAMIC		C207, 231, 268, 325, 428	5
82	064-212	CAPACITOR, 39pf, 100V, 5%, CERAMIC		C264, 265	2
83					
84	064-215	CAPACITOR, 68pf, 100V, 5%, CERAMIC		C176-179, 182, 183, 185-189	11
85	064-217	CAPACITOR, 100pf, 100V, 5%, CERAMIC		C196	1
86	064-218	CAPACITOR, 120pf, 100V, 5%, CERRAMIC		C60, 65, 70, 75, 129, 134, 139	7
87	064-224	CAPACITOR, 560pf, 100V, 5%, CERAMIC		C250	1
88	064-227	CAPACITOR, 1000pf, 100V, 5%, CERRAMIC		C17, 25, 31, 37, 43, 49 55, 89, 95, 101, 108 114, 120, 202, 239, 270, 295, 313, 327, 351, 369, 381, 399, 411, 429	25
89	069-253	CAPACITOR, 1500pf, 100V, 5%, CERRAMIC		C198, 211, 214, 217, 219, 223, 225, 233, 256	9
90	064-298	CAPACITOR, .01uf, 100V, 20%, CERAMIC		C262	1
91	064-062	CAPACITOR, .1uf, 100V, 20%, CERAMIC		C3, 5, 8, 11, 15, 16, 18-20, 23, 24, 26, 29, 30, 32, 35, 36, 38, 41, 42, 44, 47, 48, 50, 53, 54, 56, 59, 61, 64, 66, 69, 71, 74, 76-80, 85-88 90, 93, 94, 96, 99, 100, 102, 105-107 109, 112, 113, 115,	256

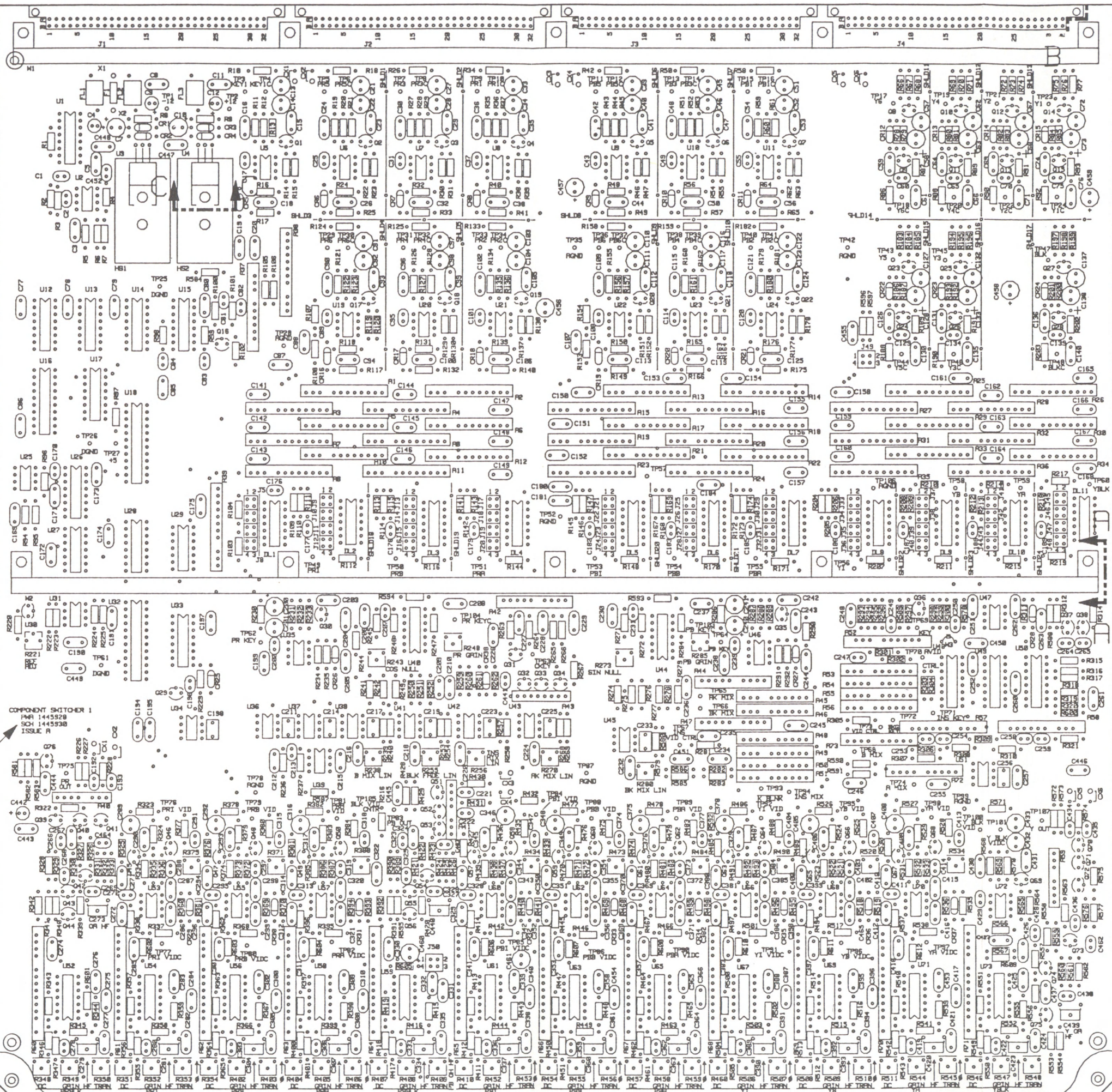
AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LM- 1445928-01	A
				PAGE 6 OF 8	
ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
				118,119,121,124- 126,130,131,135, 136,140-149,150- 169,171-175,180, 181,184,190,191, 194,195,197,199 203-206,208,210, 212,215,216,218, 220,224,226-230, 232,234-238,242- 246,248,251,252, 255,257,260,261, 263,267,271,272 274-277,282-287 290,293,294,296 298,299,300-302, 305,308-312,314 317,320-322,324 328-332,335,338 339-343,345,349 350,352,353,355- 358,361,364-366 368,370-372,376 379,380,382,383 385-388,391,394- 398,400,402,406 409,410,412,415- 418,421,424-427 430,431,437,443- 451,453-455,465 209	
92	063-578	CAPACITOR, 22uF, 25V, 20%, ALUM.		C4,9,12,442	4
93	037-954	CAPACITOR, 22uF, 15V, 20%, TANT.		C13,14,21,22,27,28 33,34,39,40,45,46 51,52,57,58,62,63 67,68,72,73,91,92 97,98,103,104,110 111,116,117,122, 123,127,128,132, 133,137,138,200, 201,240,241,432, 433	46
94	037-963	CAPACITOR, 33uF, 10V, 20%, TANT.		C289,292,316,346 348,375,378,405 408	9
95	.....	CAPACITOR, A/R		C2,83,84,192, 193,213,221,222 266,323,434,435 436,452	14
96	038-350	CAPACITOR VAR., 2-10pF, SIDE ADJ.		C273,279,281,304 334,337,360,363	15

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LM- 1445928-01	A
				PAGE 7 OF 8	
ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
97	037-893	CAPACITOR, 15uF, 20V, 20%,		390,393,420,423	
98		TANT.		439,440,307	
99	064-210	CAPACITOR, 27pF, 100V, 5% CERAMIC		C7,10,456-461	8
100	002-093	IC, 74HC00		C170	1
101	003-146	IC, 74HC74		U29	1
102	003-637	IC, 74HC133	* 1	U27	1
103	003-376	IC, 74HC138		U33	1
104	004-094	IC, 74HC154		U17	1
105	003-423	IC, 74HC174		U18,32	2
106	003-150	IC, 74HC373	* 1	U49	1
107	003-670	IC, 74HC4050		U16	1
108	590-054	IC, AD7524		U12-15	4
109	586-778	IC, CA3054		U26	1
110	590-031	IC, CA3094		U52,54,56,58,59,61	12
111	587-322	IC, CD4049	* 1	63,65,67,69,71,73	
112	004-534	IC, DG212	* 1	U5-11,19-24,35,46	26
113	001-962	IC, LF398		47,53,55,57,60,62	
114	003-142	IC, LF412A		64,66,68,70,72	
115	589-810	IC, LF13202		U1	1
116	581-996	IC, LT1009		U50	1
117	590-179	IC, MC1595		U34,36-38,41-43,45	9
118	587-440	IC, UA7812		51	
119	589-862	IC, UA7912		U2,25,31,39	4
120				U28,48	2
121				U30	1
122	581-105	DIODE, 1N4148		U40,44	2
123	580-226	TRANSISTOR, NPN, 2N4124	* 2	U4	1
124	580-809	TRANSISTOR, PNP, 2N4126	* 2	U3	1
125	051-770	FERRITE FILTER		CR1-38	38
126	570-511	DELAY LINE, 150ns, BINARY		Q1-7,16-22,29,30,	47
127	187-259	TEST POINT		32,35,38,39,41,42	
128	582-517	HEAT SINK		45-51,53,54,57-71	
129	070-443	FUSE, 5A		73	
130	173-734	TERMINAL,BIFURCATED SWAGE		Q8-15,23-28,31,33,	29
131	932-035	FERRITE BEAD	* 2	34,36,37,40,43,44	
132	1442853-AB	CONNECTOR, 4 POS.		52,55,56,72,74-76	
133	602-066	JUMPER, 2POS.		FL1-3	3
134	582-330	IC. SOCKET, 14 PIN		DL1-11	11
				TP101.103-107	106
				HS1,2	2
				F1	1
				X1,2	2
			* 2	W3,Q1-7,9,11,13,15	53
				17-22,24,26,28,30	
				35,40,52,69,72	
				J5-50	46
				REF: P5-50	90
				U52,54,58,59,61,63	23



AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LM- 1445928-01	A
				PAGE 8 OF 8	
ITEM NO.	PART NUMBER	D E S C R I P T I O N	NOTE	REFERENCE DESIGNATOR	QTY
				65,67,69,71,73,56 DL1-11	
135	141-129	CONNECTOR, 64 POS., RIGHT ANGLE		J1-4	4
136	204-759	SCREW, PPH, M2.5 X 0.45 X 12mm		J1-4	8
137	204-757	NUT, HEX, M2.5 X 0.45		J1-4	8
138	502-023	WASHER, INTERNAL TOOTH, M2.5		J1-4	8
139	204-099	SCREW, M3 X 0.5 X 10, PPH		U1,2,W1,2	14
140	204-171	NUT, M3 X 0.5		U1,2,W1,2	14
141	204-159	WASHER, FLAT M3		U1,2,W1,2	14
142	204-153	LOCKWASHER, M3		U1,2,W1,2	14
143	530-512	CARD EJECTOR			2
144	1445943-01	CARD STIFFENER		W1,2	2
145	1445008-01	PWA, DUAL CROSSPOINT, SMA	* 1	A1-36,38,39	38
146	1445011-01	PWA, VIDEO AMPLIFIER, SMA	* 1	A37,52,57,58	4
147	1445014-01	PWA, ANALOG AND GATE, SMA	* 1	A45,46,49,51,53,56	6
148	1445017-01	PWA, ANALOG OR GATE, SMA	* 1	A42,44,47,48,50,54 55,72,73	9
149	1445025-01	PWA, VIDEO MIXER, SMA	* 1	A60-71	12
150	615-004	WIRE, SOLID, BUS 24 AWG		W3	A/R
151	502-551	WASHER, NYLON		J1-4	8
		* 1	STATIC SENSITIVE: REQUIRES SPECIAL HANDLING.		
		* 2	USE FERRITE BEAD ON EMITTER AND COLLECTOR LEADS REFERENCED IN ITEM # 131, AND ONE BEAD ON W3.		





Assembly No. 1445928-01A.  
Component Switcher 1 PWA







"X" DETAIL

REF	DES	RA	LA	RA	RB	RC	RD	RE	RF	RG	RH	RJ	CA	CB	CC	CD	CE	CF
X1	70	71	515	539	540	542	511	543	541	544	612	421	418	419	420	453	395	
X2	69	69	512	516	514	513	508	512	515	509	611	394	357	392	393	355	387	
X3	68	67	507	502	500	504	460	505	503	506	610	391	383	388	390	388	366	
X4	71	73	543	555	551	549	546	550	552	547	609	424	426	422	423	425	417	
X5	67	65	459	465	464	462	457	461	463	458	608	364	357	362	363	365	454	
X6	66	63	456	448	447	450	454	451	449	455	607	361	353	359	360	358	340	
X7	65	61	453	443	413	412	410	411	444	452	606	334	341	336	337	339	331	
X8	64	59	409	415	419	418	407	417	416	408	605	335	330	333	334	332	330	
X9	63	59	406	398	397	402	404	401	399	405	604	300	311	206	327	309	300	
X10	62	55	403	367	363	354	351	355	366	402	603	305	291	303	304	304	284	
X11	61	54	353	355	357	356	351	355	358	352	602	285	280	280	281	283	275	
X12	50	52	350	344	343	346	348	347	345	349	601	277	274	276	279	276	None	

"YBC" DETAIL

REF	DES	CA	CB	CC	CD	CE	RA	RB	RC	RD	RE	RF	RG	CH	GB	CRA	TPA	TPB
YBC1	137	138	136	140	139	197	198	199	200	201	202	203	37	26	24	47	46	
YBC2	72	73	74	76	75	76	77	85	84	93	92	14	15	15	15	23	24	
YBC3	67	68	69	71	70	72	73	74	83	82	81	90	12	13	14	21	22	
YBC4	132	133	131	135	134	194	195	196	192	193	191	190	25	26	23	45	46	
YBC5	62	63	64	66	65	69	70	71	81	80	89	88	10	11	13	19	20	
YBC6	127	128	125	130	129	183	184	185	187	186	189	188	23	24	22	43	44	
YBC7	57	58	59	61	60	66	67	68	79	78	87	86	8	9	12	17	18	

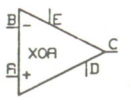
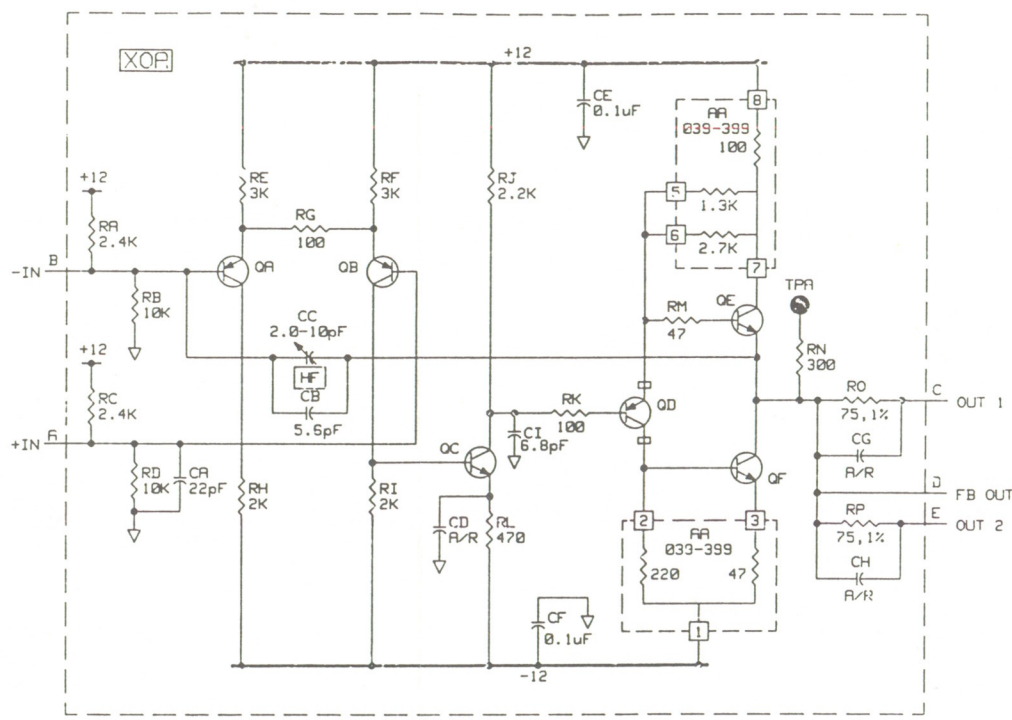
**Schematic No. 1445930B.**  
**Component Switcher 1 PWA**  
**(Sheet 2 of 14)**

D

C

B

A



"XOR" DETAIL

REF	DES	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	CA	CB	CC	CD	CE	CF	CG	CH	C1	QA	QB	QC	QD	QE	QF	RA	TPA
XOR1		561	562	558	559	554	557	556	553	560	577	576	563	575	572	574	573	428	438	439	436	446	437	435	434	462	75	74	73	72	71	70	59	107
XOR2		425	426	390	389	391	392	595	420	421	424	423	422	429	428	430	431	325	326	440	323	445	324	221	222	463	56	55	54	52	51	53	41	83
XOR3		332	333	320	329	341	342	340	339	330	331	326	327	322	226	227	228	268	269	273	266	444	267	192	193	464	44	43	42	40	39	41	40	75

Schematic No. 1445930B.  
 Component Switcher 1 PWA  
 (Sheet 3 of 14)



8

7

6

5

4

3

[0E65b1] 2

DISTR CODE: 1

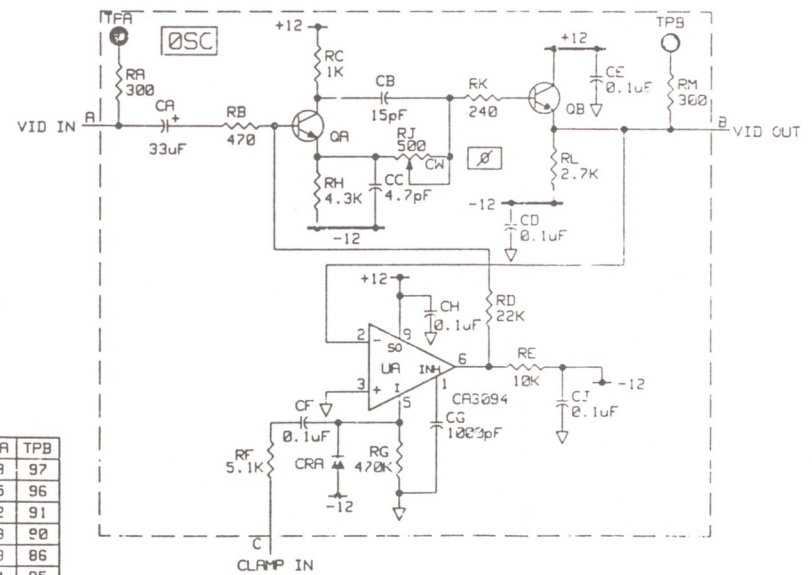
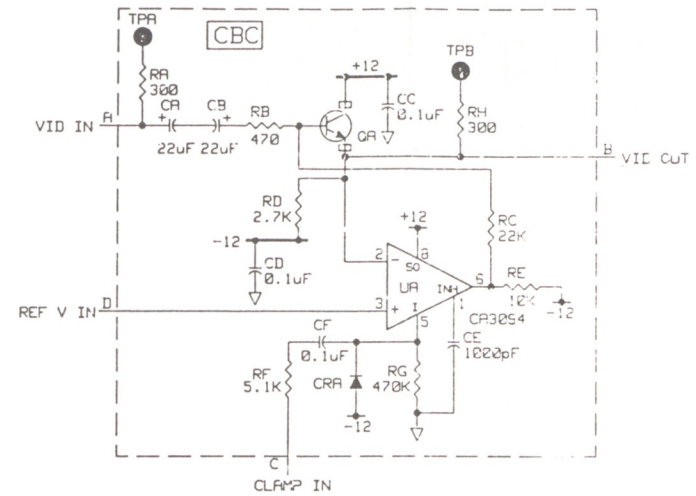
"CBC" DETAIL

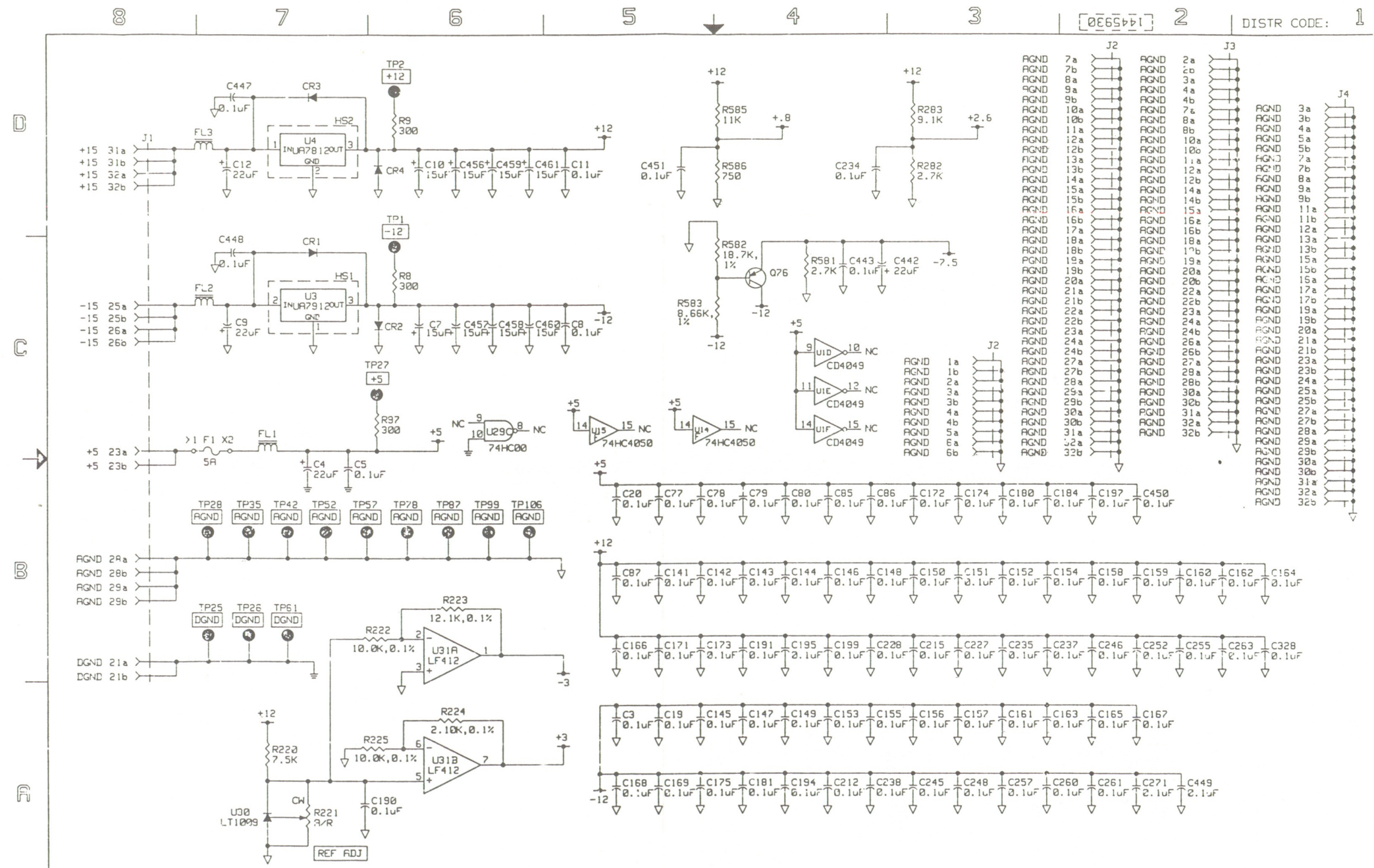
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CBC1	3	4	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
CBC2	64	103	241	240	242	243	239	244	286	287	288	289	291	290	232	593	35	46	27	
CBC3	62	104	200	201	203	204	202	205	230	231	232	233	234	244	235	594	30	35	26	
CBC4	100	101	433	432	431	430	429	427	571	570	565	568	564	567	566	569	69	72		
CBC5	15	16	51	52	53	54	55	56	56	61	62	59	63	65	64	60	7	11	11	
CBC6	40	41	122	123	124	121	120	125	182	161	177	179	176	175	176	180	22	24	21	
CBC7	13	14	45	46	47	48	49	50	50	53	54	51	55	57	56	52	6	10	10	
CBC8	38	39	116	117	118	115	114	119	159	162	163	160	164	166	165	161	21	23	20	
CBC9	11	12	39	40	41	42	43	44	42	45	46	43	47	49	48	44	5	9	9	
CBC10	36	37	110	111	112	109	108	113	158	157	151	155	152	149	150	156	20	22	19	
CBC11	9	10	33	34	35	36	37	38	34	37	38	35	39	41	40	36	4	8	8	
CBC12	33	34	103	104	105	102	101	106	133	136	137	134	138	140	139	135	19	21	18	
CBC13	7	8	27	28	29	30	31	32	26	29	30	27	31	33	32	28	3	7	7	
CBC14	31	32	97	98	99	96	95	100	125	128	129	126	130	132	131	127	18	20	17	
CBC15	5	6	21	22	23	24	25	26	18	21	22	19	23	25	24	20	2	6	6	
CBC16	29	30	91	92	93	90	89	94	124	123	119	121	120	117	118	122	17	19	16	



"OSC" DETAIL

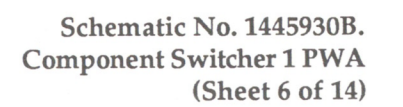
REF	DES	CA	CB	CC	CD	CE	CF	CG	CH	CJ	RA	RB	RC	RD	RE	RF	RG	RH	RJ	RK	RL	RM	QA	QB	CRA	UA	TPA	TPB
OSC1	400	414	413	410	409	416	411	415	412	527	529	533	532	537	536	535	528	534	531	530	538	68	67	37	70	98	97	
OSC2	425	403	407	402	406	465	399	492	398	526	524	521	522	494	518	519	525	520	523	489	517	66	65	36	68	95	96	
OSC3	378	384	404	380	379	365	381	385	382	486	487	493	492	497	496	495	488	490	491	485	501	64	63	35	66	92	91	
OSC4	375	373	377	370	376	371	369	372	368	478	479	482	481	467	499	498	403	434	480	474	466	62	61	34	64	89	88	
OSC5	348	354	374	350	349	356	351	355	352	477	476	472	471	445	469	468	475	473	470	433	446	60	59	33	62	88	86	
OSC6	346	344	347	322	345	342	327	343	329	432	436	437	438	414	440	441	435	434	439	427	442	58	57	32	60	84	85	
OSC7	316	319	318	314	317	321	313	320	312	382	383	387	386	396	394	393	384	388	385	381	395	50	49	31	57	81	82	
OSC8	292	297	315	294	293	299	295	298	296	378	379	372	373	362	369	370	380	371	374	376	368	48	47	30	55	79	80	
OSC9	289	288	291	271	290	286	270	287	272	323	324	336	335	338	360	361	377	375	334	325	337	46	45	29	53	76	77	

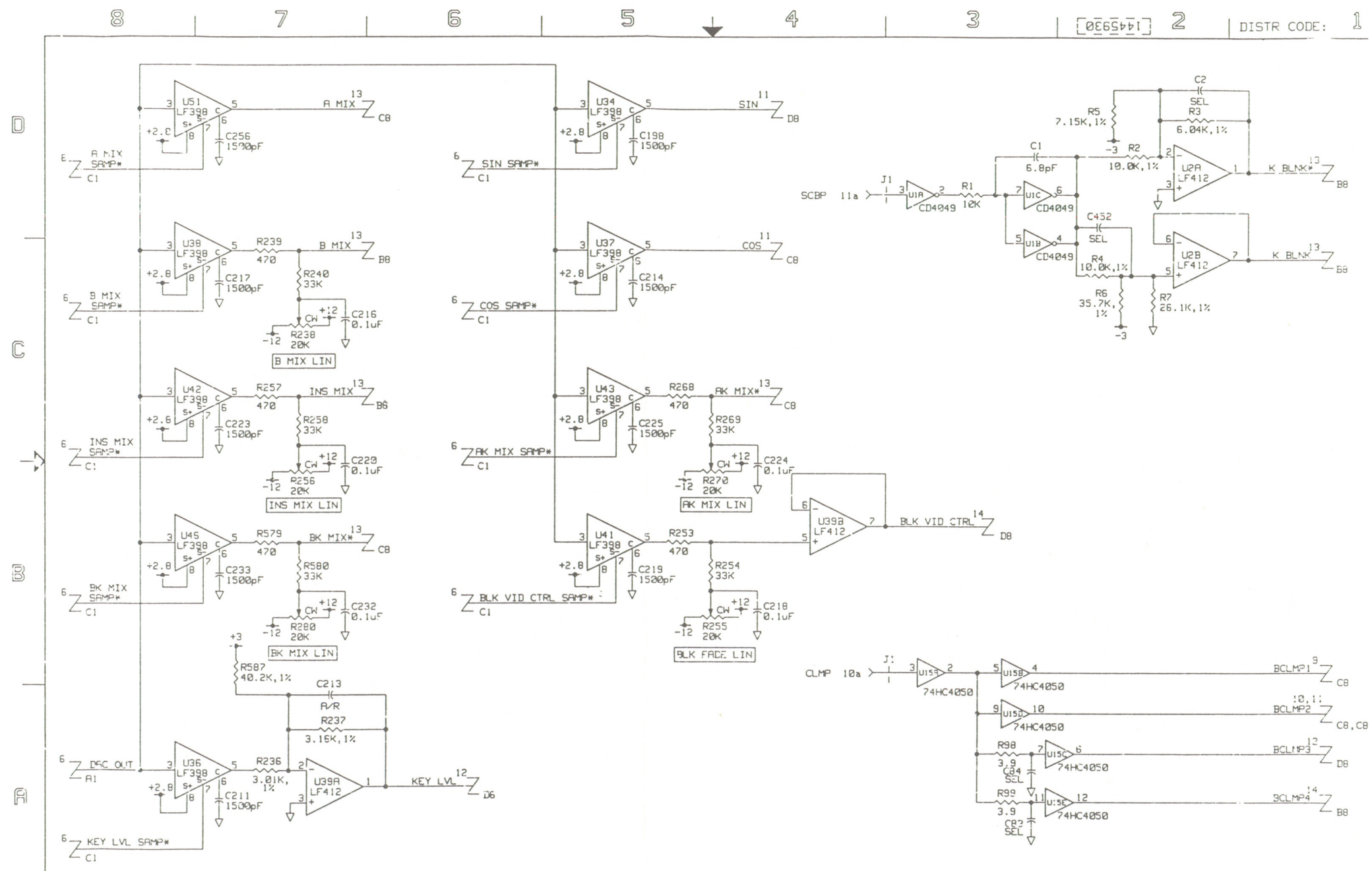




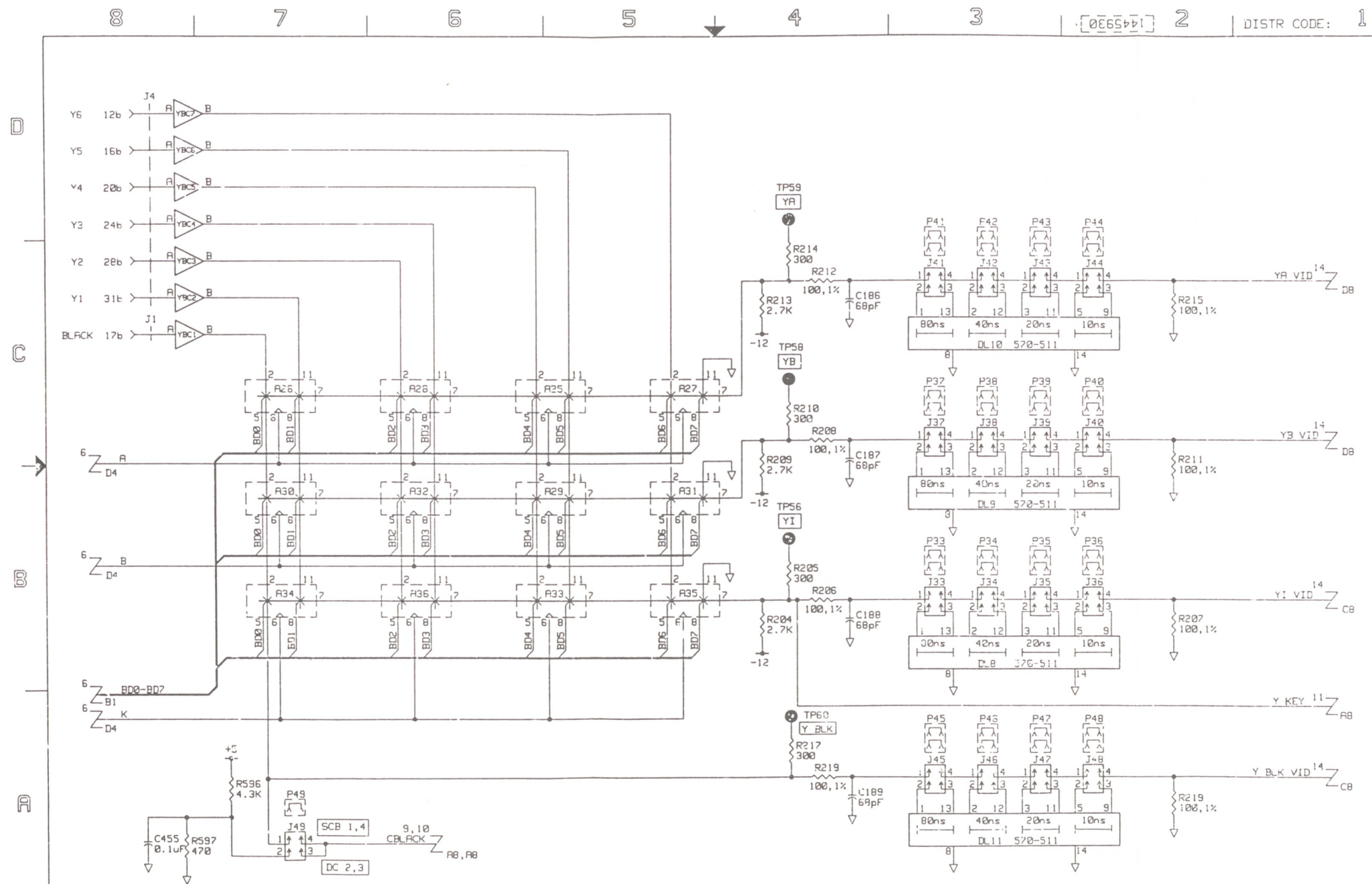
Schematic No. 1445930B.  
Component Switcher 1 PWA  
(Sheet 5 of 14)





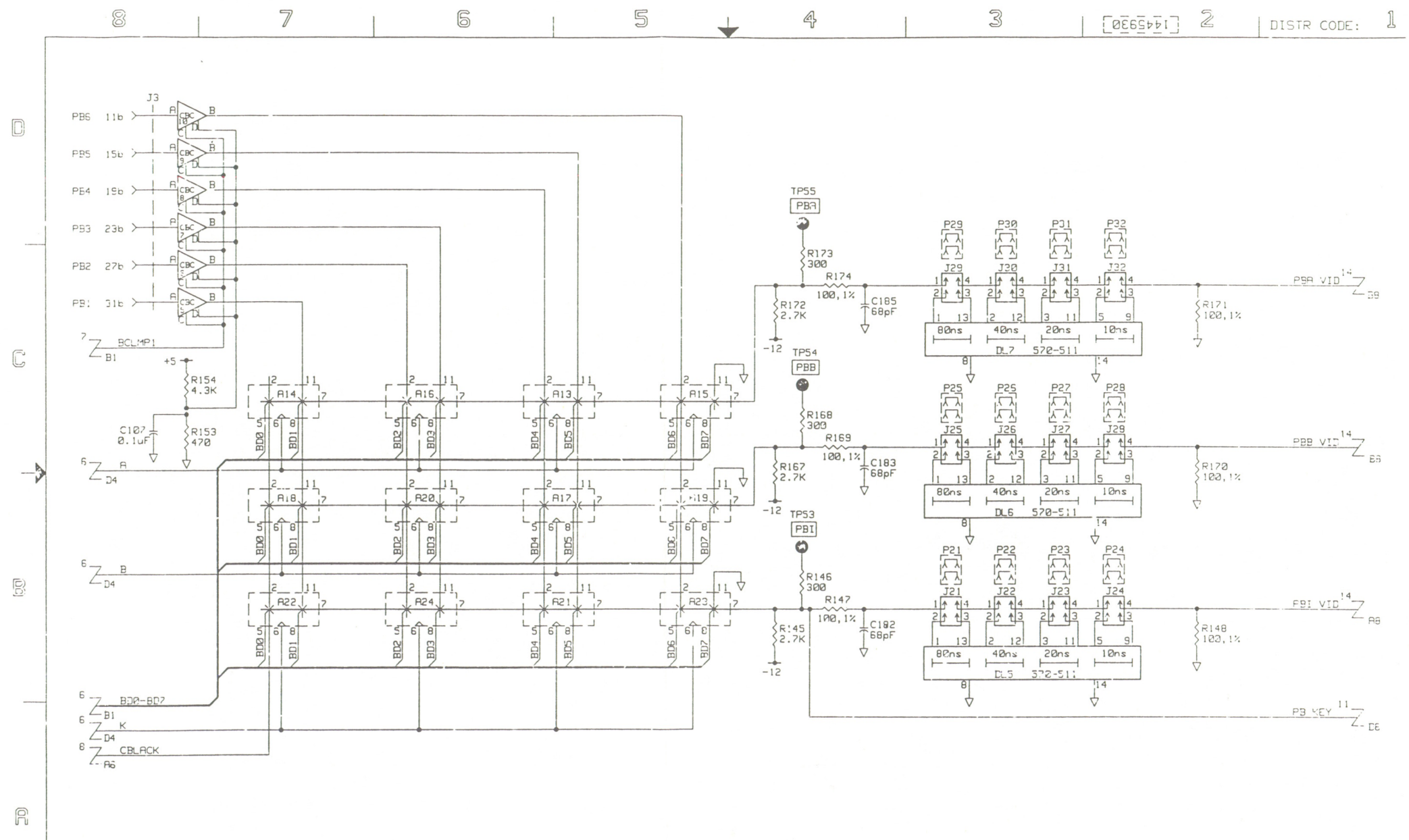


Schematic No. 1445930B.  
Component Switcher 1 PWA  
(Sheet 7 of 14)

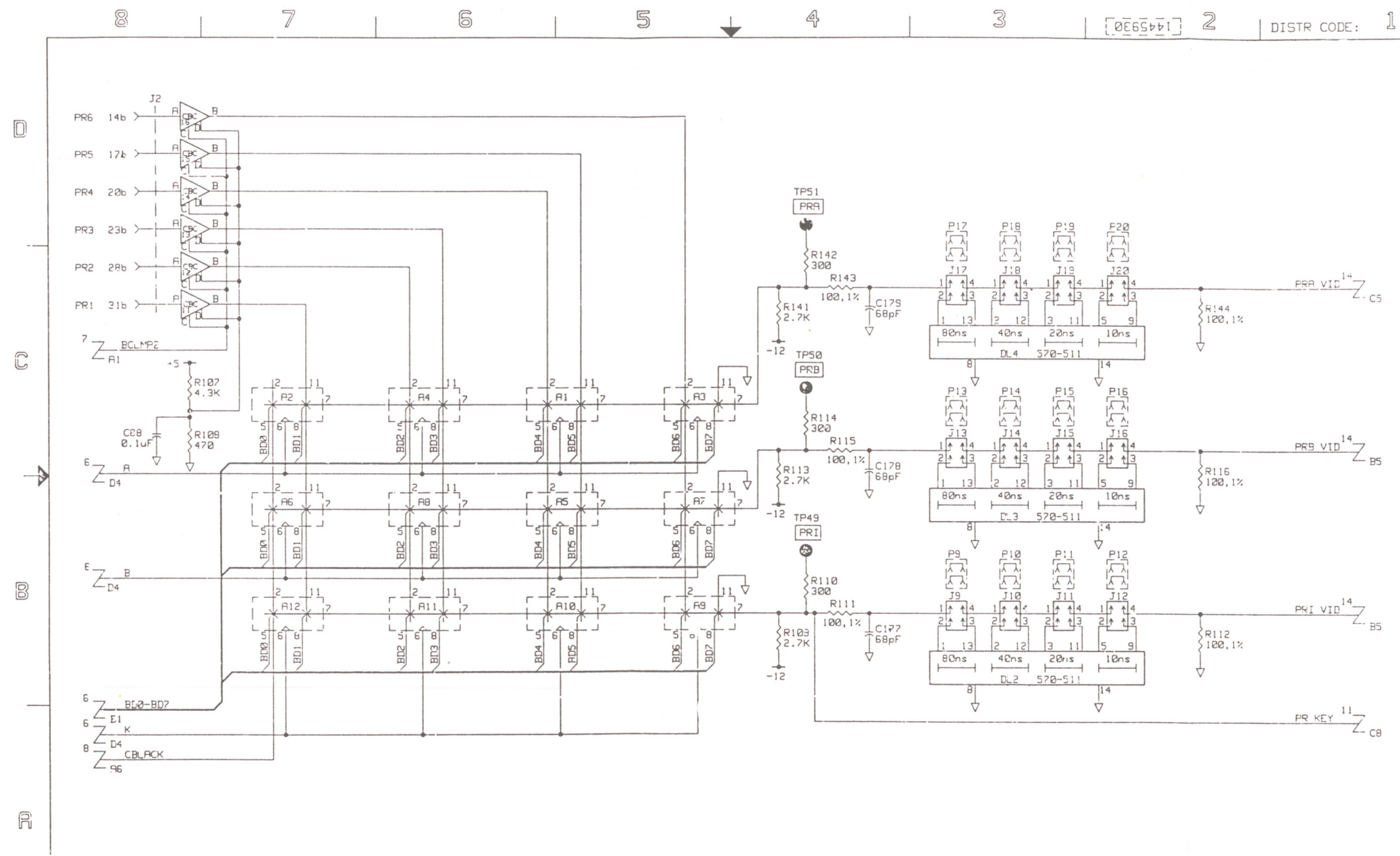


Schematic No. 1445930B.  
Component Switcher 1 PWA  
(Sheet 8 of 14)





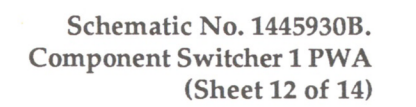
Schematic No. 1445930B.  
 Component Switcher 1 PWA  
 (Sheet 9 of 14)

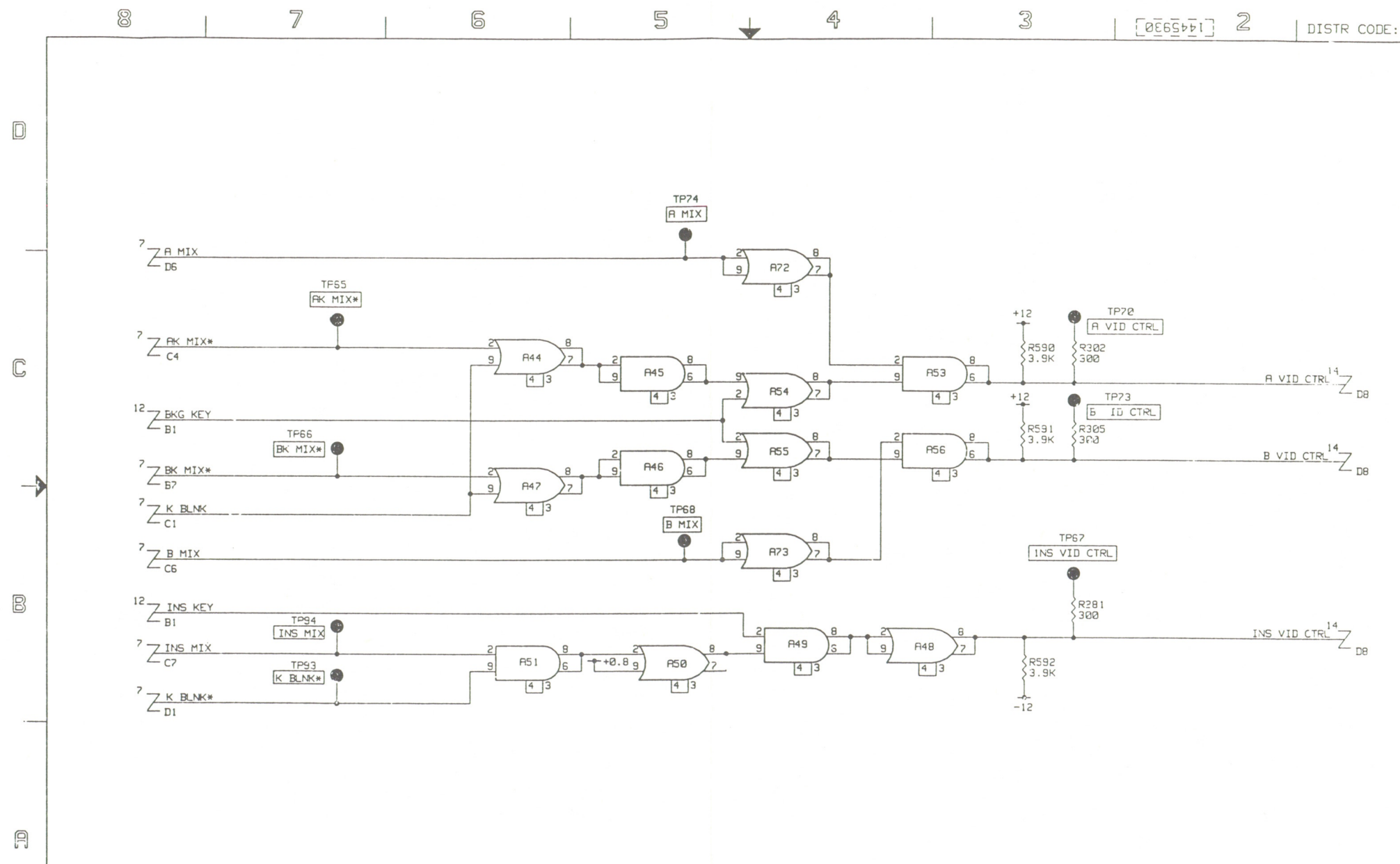


Schematic No. 1445930B.  
Component Switcher 1 PWA  
(Sheet 10 of 14)



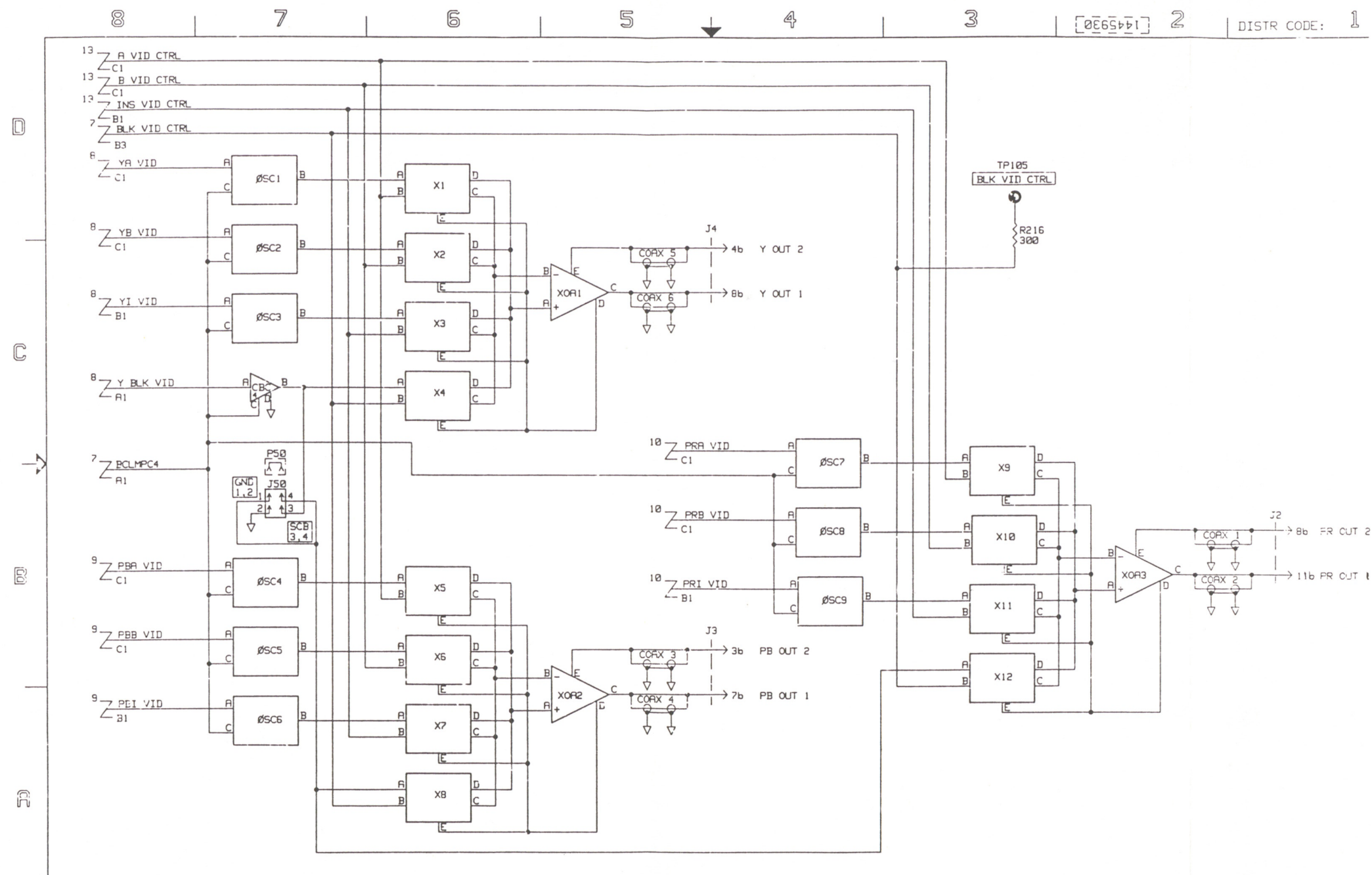






Schematic No. 1445930B.  
Component Switcher 1 PWA  
(Sheet 13 of 14)





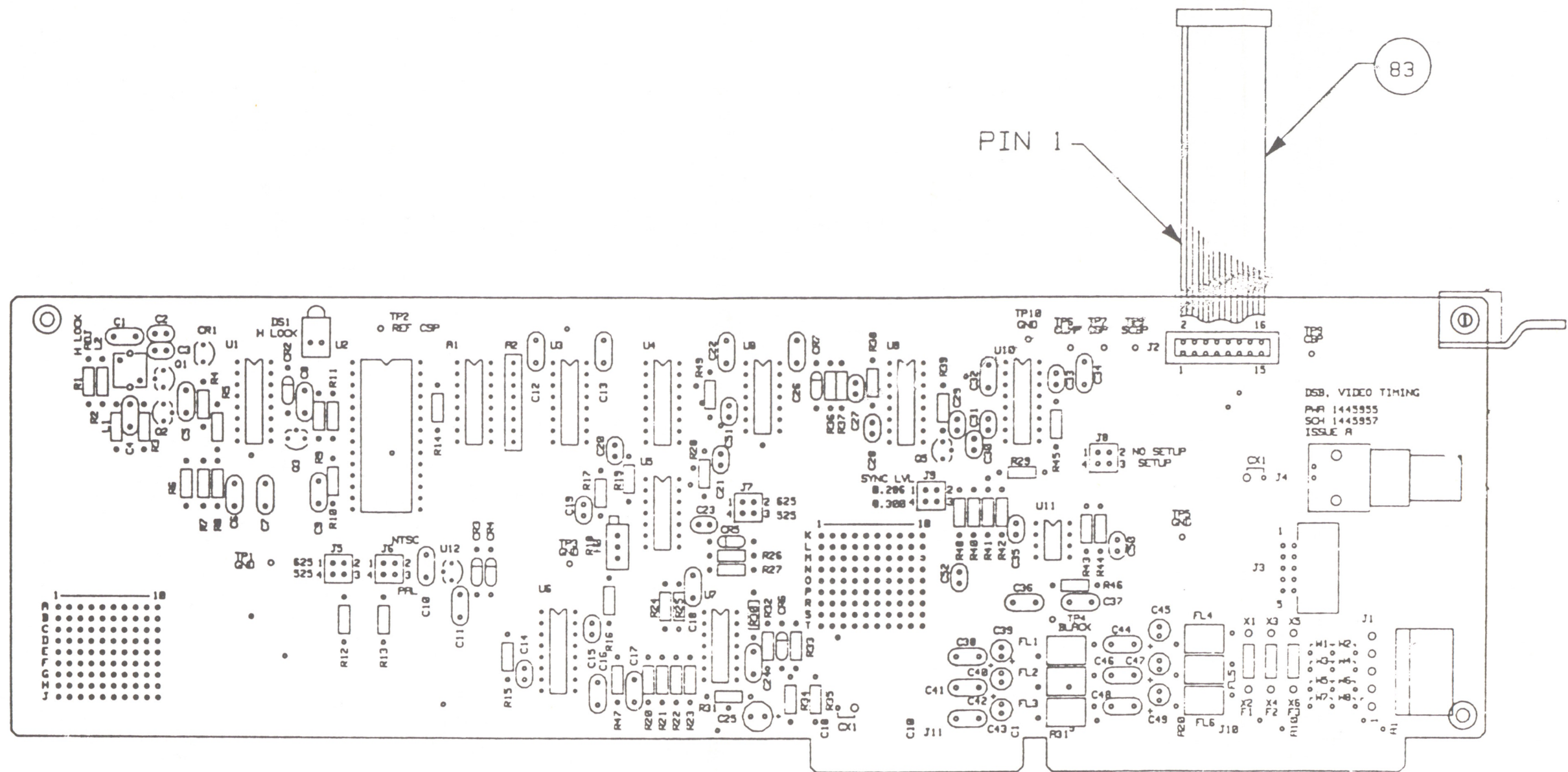
Schematic No. 1445930B.  
Component Switcher 1 PWA  
(Sheet 14 of 14)

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
* indicates a NOTE see last page of List Of Materials					
1					
2	1445957-02	SCHEMATIC			REF
3	076-045	RESISTOR, 75 OHMS, 5%, 1/4 W		R46	1
4	066-662	RESISTOR, 200 OHMS, 5%, 1/4 W		R11	1
5	066-859	RESISTOR, 240 OHMS, 5%, 1/4 W		R25,32	2
6	066-818	RESISTOR, 470 OHMS, 5%, 1/4 W		R3	1
7	066-820	RESISTOR, 750 OHMS, 5%, 1/4 W		R6	1
8	066-665	RESISTOR, 1K, 5%, 1/4 W		R12,13,23,24,31	5
9	066-715	RESISTOR, 1.2K, 5%, 1/4 W		R20	1
10	066-826	RESISTOR, 2K, 5%, 1/4 W		R16,33	2
11	076-824	RESISTOR, 1.8 5%, 1/4 W		R28	1
12	066-689	RESISTOR, 2.2K, 5%, 1/4 W		R22	1
13	066-710	RESISTOR, 19.6K, 1%, 1/4 W		R36	1
14	062-973	RESISTOR, 5.76K, 1%, 1/4 W		R37	1
15	062-639	RESISTOR, 3.01K, 1%, 1/4 W		R17,26,49	3
16	062-986	RESISTOR, 12.1K, 1%, 1/4 W		R27	1
17	066-668	RESISTOR, 4.7K, 5%, 1/4 W		R5	1
18	066-842	RESISTOR, 5.1K 5%, 1/4 W		R10, 18, 39	1
19	066-711	RESISTOR, 7.5K, 5%, 1/4 W		R45	1
20	066-736	RESISTOR, 9.53K, 1%, 1/4 W		R44	1
21	066-830	RESISTOR, 10K, 5%, 1/4 W		R1,2,9,29	4
22	062-983	RESISTOR, 10K, 1%, 1/4 W		R42,48	2
23	066-670	RESISTOR, 9.1K, 5%, 1/4 W		R47	1
24	066-873	RESISTOR, 20K, 5%, 1/4 W		R15	1
25	066-857	RESISTOR, 91K, 5%, 1/4 W		R21	1
26	066-849	RESISTOR, 100K, 5%, 1/4 W		R4,34,40	3
27	076-358	RESISTOR, 165K, 1%, 1/4 W		R41	1
28	076-054	RESISTOR, 430K, 5%, 1/4 W		R8	1
29	076-181	RESISTOR, 953K, 1%, 1/4 W		R43	1
30	066-673	RESISTOR, 1M, 5%, 1/4 W		R10	1

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LM- 1445955-02 SHEET 1 OF 2 PAGE 2 OF 3		B
ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY	
31	066-827	RESISTOR, 3.9K, 5Z, 1/4 W		R14	1	
32	.....	RESISTOR, SELECT		R7	1	
33	066-666	RESISTOR, 2.7K, 5Z, 1/4 W		R30	1	
34	066-669	RESISTOR, 8.2K, 5Z, 1/4 W		R35	1	
35	058-567	RESISTOR VAR., 2K, SIDE ADJ.		R18	1	
36	039-152	RESISTOR NET., 2K, 16 PIN DIP		A1	1	
37	039-267	RESISTOR NET., 5.6K 8 PIN SIP		A2	1	
38	064-217	CAPACITOR, 100pF, 100V, 5Z Cer		C52	1	
39	064-205	CAPACITOR, 8.2pF, 100V, 5Z, Cer		C35,50	2	
40	064-214	CAPACITOR, 56pF, 100V, 5Z, Cer		C23	1	
41	064-206	CAPACITOR, 10pF, 100V, 5Z, Cer.		C33	1	
42	064-216	CAPACITOR, 82pF, 100V, 5Z, Cer.		C28	1	
43	064-218	CAPACITOR, 120pF, 100V, 5Z, Cer		C31	1	
44	064-219	CAPACITOR, 150pF, 100V, 5Z, Cer		C19,51	2	
45	064-220	CAPACITOR, 220pF, 100V, 5Z, Cer		C2,27,29	3	
46	064-227	CAPACITOR, 1000pF, 100V, 5Z, Cer		C3,15	2	
47	064-230	CAPACITOR, 2200pF, 100V, 5Z, Cer		C14	1	
48	064-898	CAPACITOR, .1uF, 100V, 5Z, Cer.		C1,4-13,16-18, 22,26,32,34,36, 38,41,42,44,46, 48	26	
49						
50	063-578	CAPACITOR, 22uF, ALUM.		C39,40,43,45,47 49	6	
51	037-954	CAPACITOR, 22uF, 15V, TANT		C25	1	
52	.....	CAPACITOR, SELECT		C20,21,30	3	
53	067-221	CAPACITOR, 15uF, 20V TANT		C24	1	
54						
55	003-404	IC., 74HC08	* 1	U5	1	
56	003-146	IC., 74HC74	* 1	U8	A/R	
57	003-665	IC., 74HC221	* 1	U6	1	
58	003-667	IC., 74HC4046	* 1	U1	1	
59	003-669	IC., 74HC4049	* 1	U3	1	
60	003-670	IC., 74HC4050	* 1	U4,9	2	
61	004-117	IC., SAA1043N	* 1	U2	1	
62	587-322	IC., CD4049	* 1	U10	1	
63	589-915	IC., CA3086		U7	1	
64	590-102	IC., NE5532		U11	1	
65	587-771	IC., LM78L05		U12	1	
66						
67	581-105	DIODE, 1N4148		CR2-7	6	
68	581-735	DIODE, MV2109		CR1	1	
69						
70	580-647	TRANSISTOR, NPN, 2N3904		Q1,3,5	3	
71	580-098	TRANSISTOR, PNP, 2N3906		Q2	1	
72	051-770	FERRITE FILTER		FL1-6	6	
73						
74	581-620	LED, DISPLAY, YELLOW		DS1	1	
75	051-813	INDUCTOR, 22uH		L1	1	
76	1374388-AM	INDUCTOR VAR., 4.7uH		L2	1	
77						
78	135-994	CONNECTOR, RT ANGLE, 5 PIN		J1	A/R	



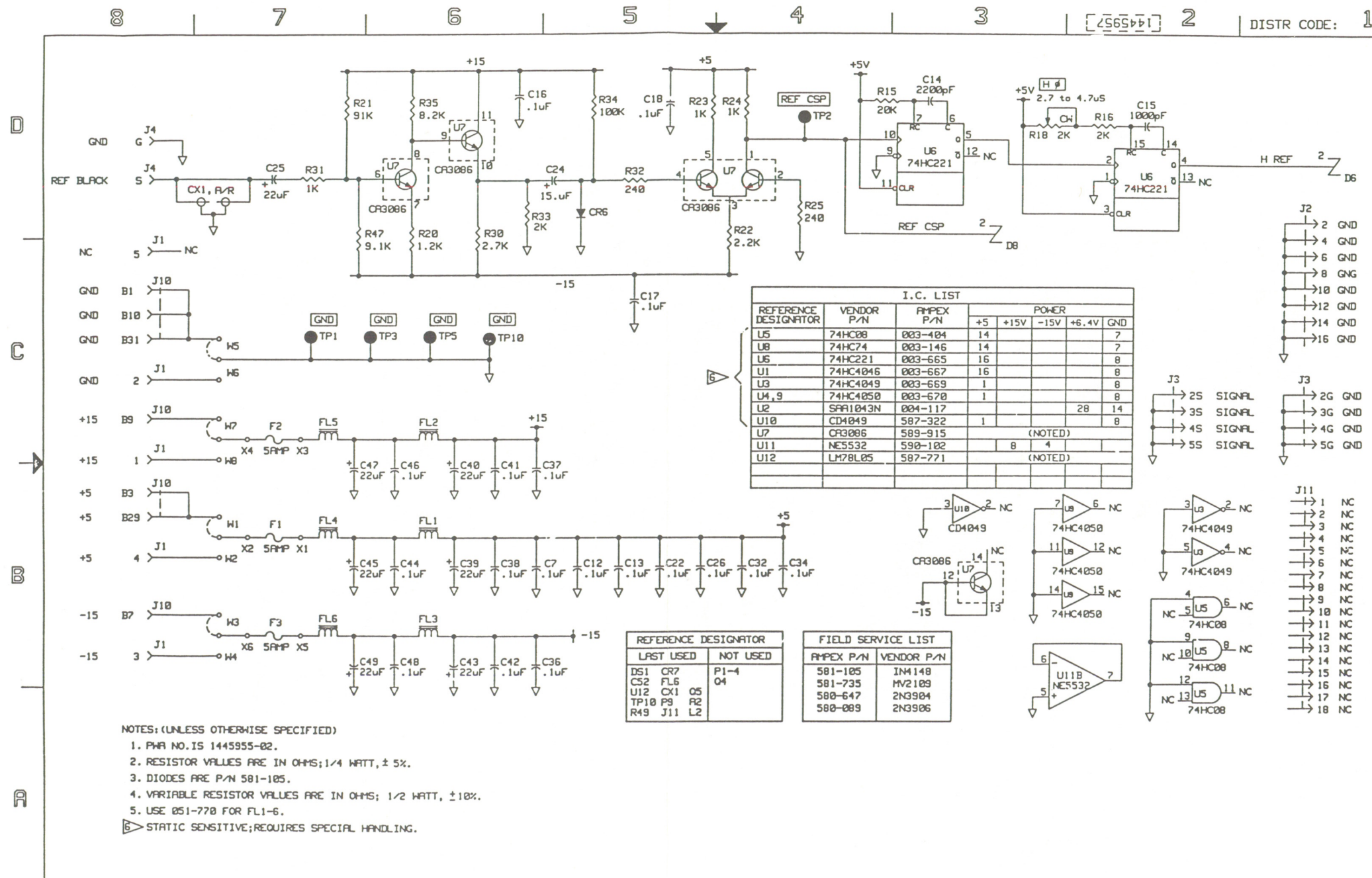
AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS	LM- 1445955-02 SHEET 1 OF 2 PAGE 3 OF 3	B	
ITEM NO.	PART NUMBER	D E S C R I P T I O N	NOTE	REFERENCE DESIGNATOR	QTY
79	135-117	CONNECTOR, RT ANGLE, 10 PIN		J3	1
80	1442853-AB	CONNECTOR, 4 PIN		J5-9	5
81	602-064	JUMPER, 2 POS.		P5-9	5
82	140-692	COAX, BNC, RT ANGLE		J4	1
83	1443488-01	CABLE ASSEMBLY		J2	1
84	187-259	TEST POINT		TP1-10	10
85	614-971	WIRE, 24 AVG, INSULATED		W1,3,5,7	4
86					
87					
88	173-734	TERMINAL, BUFURCATED SVAGE		X1-6	6
89	070-443	FUSE, 5 AMP		F1-3	3
90	1430883-01	BRACKET, MOUNTING			1
91	204-098	SCREW PPH M3 X 8mm			1
92	204-147	LOCKVASHER, INT. M3			1
* 1 STATIC SENSITIVE: REQUIRES SPECIAL HANDLING.					
* 2 REVORK 1445956-01 TO -02					
REIDENTIFY AS 1445956-02 A/V B					



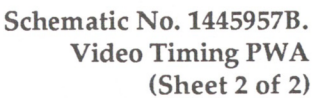
COMPONENT SIDE

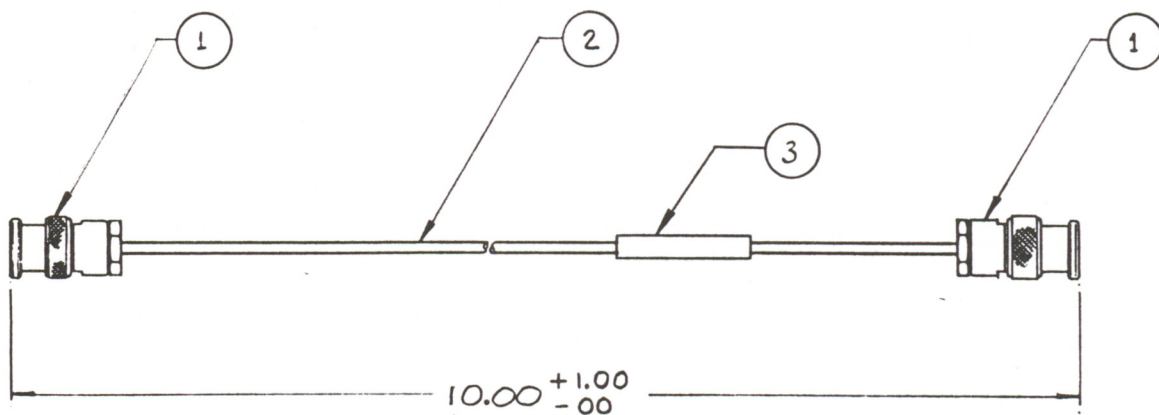
Assembly No. 1445955-02B.  
Video Timing PWA





Schematic No. 1445957B.  
Video Timing PWA  
(Sheet 1 of 2)

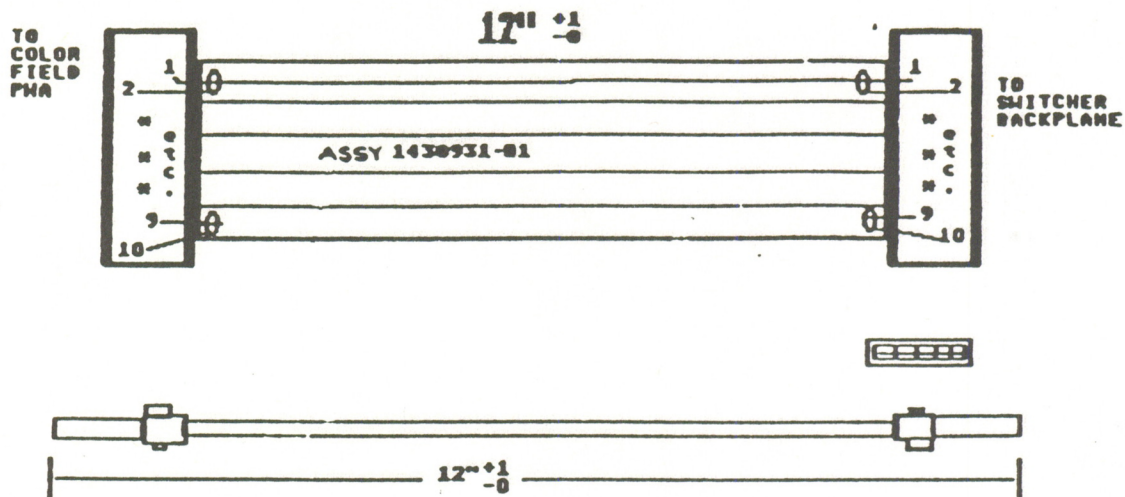




AR	3	202-066	LABEL	
AR	2	616-569	CABLE, COAXIAL	
2	1	140-536	CONNECTOR, PLUG, RF, COAX PN, BNC	
01	ITEM NO.	PART NUMBER		DESCRIPTION

Assembly No. 1431587-01B. Buffer Reference Cable





ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	636-114	COAXIAL RIBBON CABLE 5 COND. MASS TERM		AR
2	177-312	RECEPTACLE CONNECTOR 5 COND COAX KIT		2
3	202-066	LABEL		AR

Assembly No. 1430931-01A. Color Field/Switcher Cable



[illegible]

LM-1431636

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
* indicates a NOTE see last page of List Of Materials					
1					
2	1443402-01	SCHEMATIC			REF
3	066-938	RESISTOR, 47 OHMS, 5%, 1/4 W		R222	1
4	076-026	RESISTOR, 3.9 OHMS, 5%, 1/4 W		R10,11	2
5	076-045	RESISTOR, 75 OHMS, 1%, 1/4 W		R199,200	2
6	066-812	RESISTOR, 100 OHMS, 5%, 1/4 W		R220,260	2
7	062-847	RESISTOR, 100 OHMS, 1%, 1/4 W		R15,95-97, 100,101,104, 105,107	9
8					
9	066-663	RESISTOR, 220 OHMS, 5%, 1/4 W		R14,113,126	3
10	066-859	RESISTOR, 240 OHMS, 5%, 1/4 W		R167,177,185, 193,207,212, 229,237,245, 246,254,255	12
11	066-815	RESISTOR, 300 OHMS, 5%, 1/4 W		R8,9,17,25,27, 35,37,45,47, 53,55,61,63, 69,71,77,79, 85,87,94,99, 103,106,110, 114,123,124, 125,136,154, 157,165,174, 183,190,198, 202,206,211, 216	40
12	066-818	RESISTOR, 470 OHMS, 5%, 1/4 W		R28,30,38,48,	25

AMPEX CORPORATION  
REDWOOD CITY, CALIFORNIA

LIST OF MATERIALS

LM- 1443400-01  
SHEET 1 OF 2  
PAGE 2 OF 7

A

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
				56,64,72,80,88, 120,121,137, 140,143,146, 150,170,176, 184,192,219, 231,239,248,258	
13	066-820	RESISTOR, 750 OHMS, 5%, 1/4 W		R152	1
14	066-665	RESISTOR, 1K, 5%, 1/4W		R116,117,164, 169,179,187,195	7
15					
16	066-838	RESISTOR, 230 OHMS, 5%, 1/4W		R13	1
17					
18	066-826	RESISTOR, 2K, 5%, 1/4 W		R132,228,236, 244,253,264, 267	7
19	066-821	RESISTOR, 820 OHMS, 5%, 1/4W		R115	1
20					
21	066-689	RESISTOR, 2.2K, 5%, 1/4 W		R221	1
22	066-928	RESISTOR, 2.4K, 5%, 1/4 W		R111,262,265	3
23	066-666	RESISTOR, 2.7K, 5%, 1/4 W		R12,16,26,36,46, 54,62,70,78,86, 93,98,102, 155,166,175, 182,191,223	19
24	066-667	RESISTOR, 3K, 5%, 1/4 W		R261,268	2
25	062-639	RESISTOR, 3.01K, 1%, 1/4 W		R133	1
26	066-863	RESISTOR, 3.6K, 5%, 1/4 W		R129	1
27	066-824	RESISTOR, 1.5K, 5%, 1/4 W		R158,159,171	3
28	066-078	RESISTOR, 3.24K, 1%, 1/4 W		R162	1
29	066-828	RESISTOR, 4.3K, 5%, 1/4 W		R29,172,180, 188,196	5
30	062-968	RESISTOR, 4.99K, 1%, 1/4 W		R122,161,163, 269	4
31	066-842	RESISTOR, 5.1K, 5%, 1/4 W		R34,44,52,60,68, 76,84,92,119, 203,208,213,217	13
32					
33	062-954	RESISTOR, 3.16K, 1%, 1/4 W		R134	1
34	066-453	RESISTOR, 6.49K, 1%, 1/4 W		R109,160	2
35	062-976	RESISTOR, 7.15K, 1%, 1/4 W		R5,131	2
36	066-711	RESISTOR, 7.5K, 5%, 1/4 W		R21	1
37	066-822	RESISTOR, 910 OHMS, 5%, 1/4 W		R130	1
38	066-513	RESISTOR, 8.66K, 1%, 1/4 W		R225	1
39	066-670	RESISTOR, 9.1K, 5%, 1/4 W		R156	1
40	066-830	RESISTOR, 10K, 5%, 1/4 W		R1,24,32,42,50,	17



AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LM- 1443400-01 SHEET 1 OF 2 PAGE 3 OF 7		A
ITEM NO.	PART NUMBER	D E S C R I P T I O N	NOTE	REFERENCE DESIGNATOR	QTY	
				58,66,74,82,90, 112,201,205, 210,215,263, 266		
41	062-983	RESISTOR, 10.0K, 1Z, 1/4 V		R2,4,18,19,108	5	
42	079-974	RESISTOR, 10K, 0.1Z, 1/8 V	* 1	R23,270	1	
43	066-831	RESISTOR, 11K, 5Z, 1/4 V		R153	1	
44	192-654	RESISTOR, 12.1K, 0.1Z, 1/8 V	* 1	R271	1	
45	066-856	RESISTOR, 15K, 5Z, 1/4 V		R127	1	
46	062-998	RESISTOR, 18.7K, 1Z, 1/4 V		R224	1	
47	066-712	RESISTOR, 22K, 5Z, 1/4 V		R31,41,49,57,65, 73,81,89,168, 178,186,194	12	
48	066-160	RESISTOR, 6.04K, 1Z, 1/4 V		R3	1	
49						
50	066-717	RESISTOR, 47K, 5Z, 1/4 V		R232,240,249,259	4	
51						
52	066-847	RESISTOR, 33K, 5Z, 1/4 V		R138,141,144, 147,151	5	
53	066-183	RESISTOR, 60.4K, 1Z, 1/4 V		R20	1	
54	066-857	RESISTOR, 91K, 5Z, 1/4 V		R227,235,243,252	4	
55						
56	066-060	RESISTOR, 26.1K, 1Z, 1/4 V		R7	1	
57	066-714	RESISTOR, 35.7K, 1Z, 1/4 V		R6	1	
58	066-012	RESISTOR, 40.2K, 1Z, 1/4 V		R135	1	
59	066-652	RESISTOR, 470K, 5Z, 1/4 V		R33,43,51,59,67, 75,83,91,118, 204,209,214, 218	13	
60	192-651	RESISTOR, 2.10K, 0.1Z, 1/8V		R22	1	
61						
62	075-643	RESISTOR VAR., 200 , SIDE ADJ.		R230,238,247,256	4	
63	075-434	RESISTOR VAR., 500 , SIDE ADJ.		R173,181,189,197	4	
64						
65						
66	075-573	RESISTOR VAR., 20K, SIDE ADJ.		R139,142,145, 148,149	5	
67	075-644	RESISTOR VAR., 50K, SIDE ADJ.		R226,233,234, 241,242,250, 251,257	8	
68						
69	039-399	RESISTOR NETWORK, MIXED VALUE		A31	1	



AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LM- 1443400-01 SHEET 1 OF 2 PAGE 4 OF 7		A
ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY	
70		8 PIN SIP				
71						
72						
73	-----	CAPACITOR, SEL		C11,12,21,22	4	
74						
75	164-554	CAPACITOR, 3.3pF +/- .25pF 100V, CERAMIC		C110,137	2	
76	164-555	CAPACITOR, 4.7pF +/- .5pF 100V, CERAMIC		C154,161,169,177 183,191,198,203	8	
77	164-556	CAPACITOR, 5.6pF +/- .5pF 100V, CERAMIC		C105,138,142,209 141	5	
78	064-778	CAPACITOR, 6.8pF +/- .5pF 100V, CERAMIC		C9,212	2	
79						
80	064-707	CAPACITOR, 15pF, +/- 5% 100V, CERAMIC		C153,160,167,175	4	
81	064-671	CAPACITOR, 22pF, +/- 5% 100V, CERAMIC		C211	1	
82	064-665	CAPACITOR, 56pF, +/- 5% 100V, CERAMIC		C217	1	
83						
84	164-551	CAPACITOR, 68pF, +/- 5% 100V, CERAMIC		C100-103	4	
85	164-552	CAPACITOR, 100pF, +/- 5% 100V, CERAMIC		C33,216	2	
86						
87	064-703	CAPACITOR, 560pF, +/- 5% 100V, CERAMIC		C106	1	
88	064-704	CAPACITOR, 1000pF, +/- 5% 50V, CERAMIC		C39,46,53,59,66, 72,78,84,150, 156,164,173	12	
89	064-253	CAPACITOR, 1500pF, +/- 10% 100V, CERAMIC		C119,123,125, 127,129,131,140	7	
90	064-652	CAPACITOR, .01uF, +/- 20% 50V, CERAMIC		C108	1	
91	064-653	CAPACITOR, .1uF, +/- 20% 50V, CERAMIC		C1,7,8,10,13-17, 19,20,23-25, 27-32,34,35,38, 40-42,45,48,49, 52,54,55,58,60, 62,65,67,68,71, 73,74,77,79,80, 83,85-99,104, 107,109,111	123	

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LM- 1443400-01 SHEET 1 OF 2 PAGE 5 OF 7	A
ITEM NO.	PART NUMBER	D E S C R I P T I O N	NOTE	REFERENCE DESIGNATOR	QTY
				113,116,117, 120-122,124, 126,128,130, 132-136,139, 143,144,147, 149,151,152,155, 158,159,162,165, 166,168,170, 172,174,176,180, 181,182,185- 190,193-197, 200-202,205- 207,210,213,214 215,218	
92	063-578	CAPACITOR, 22uF, +/- 20% 25V, ALUM.		C2,3,4,179	4
93	037-954	CAPACITOR, 22uF, +/- 20% 15V, TANT.		C36,37,43,44,50, 51,56,57,63,64, 69,70,75,76,81, 82	16
94	037-963	CAPACITOR, 33uF, +/- 20% 10V, TANT.		C148,157,163,171	4
95	.....	CAPACITOR, A/R		C118,145,146,178	4
96	038-350	CAPACITOR VAR. 2-10pF SIDE ADJ.		C184,192,199, 204,208	5
97					
98	067-221	CAPACITOR, 15uF, +/- 20% 20V, TANT.		C5,6,61	3
99	064-712	CAPACITOR, 27pF, +/- 5% CERAMIC		C26	1
100	002-093	IC, 74HC00		U15	1
101	003-146	IC, 74HC74		U14	1
102	003-637	IC, 74HC133	* 1	U19	1
103	003-376	IC, 74HC138		U10	1
104	004-094	IC, 74HC154		U11,18	2
105	003-423	IC, 74HC174		U30	1
106	003-150	IC, 74HC373	* 1	U9	1
107	003-670	IC, 74HC4050		U5-8	4
108	590-054	IC, AD7524		U13	1
109	586-778	IC, CA3054		U44-47	4
110	590-031	IC, CA3094		U20-28,40-43	13
111	587-322	IC, CD4049	* 1	U1	1
112	004-534	IC, DG212	* 1	U31	1
113	001-962	IC, LF398		U32,34-39	7
114	003-142	IC, LF412A		U2,12,17,33	4



AMPEX CORPORATION  
REDWOOD CITY, CALIFORNIA

LIST OF MATERIALS

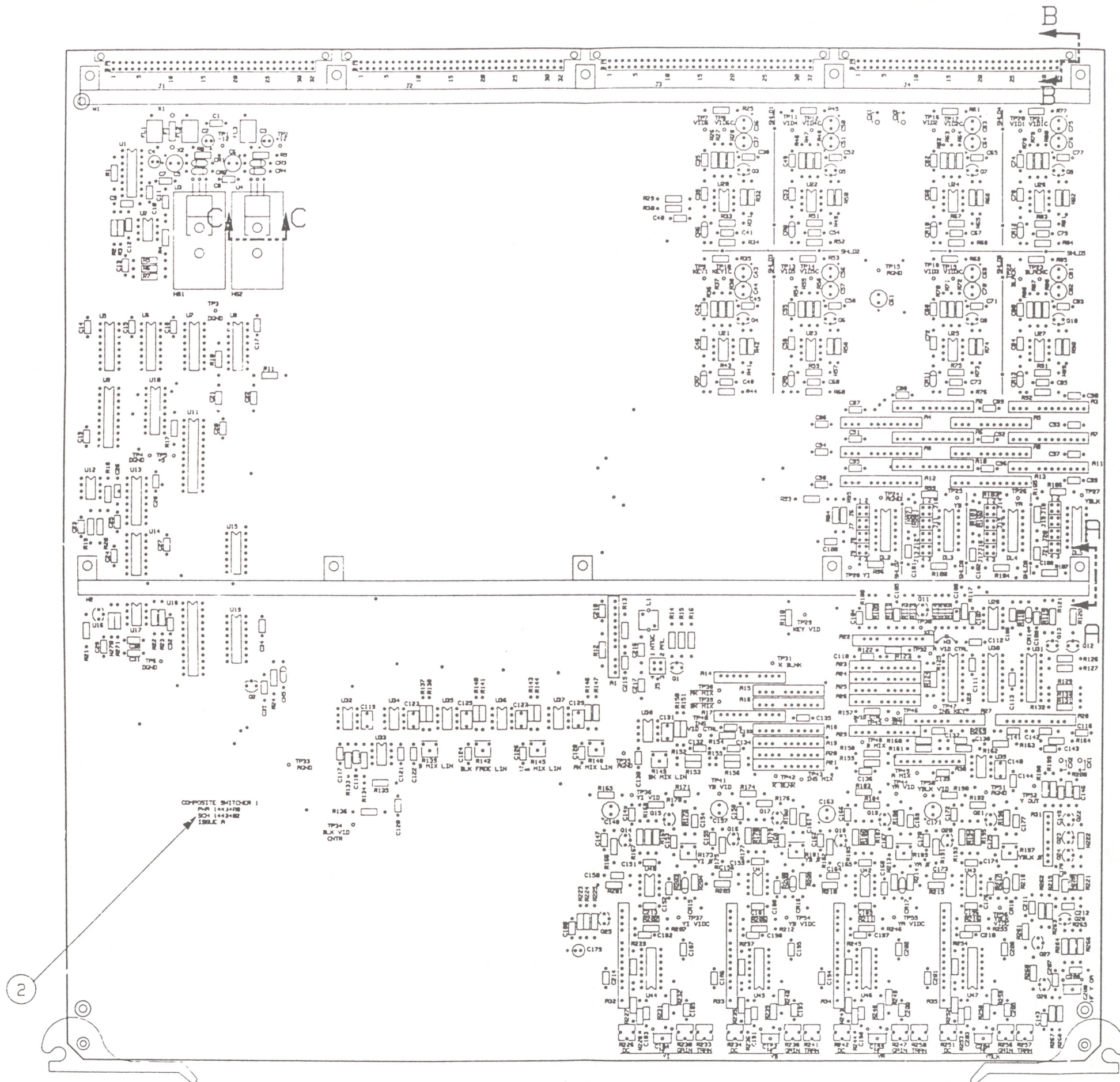
LM- 1443400-01  
SHEET 1 OF 2  
PAGE 6 OF 7

A

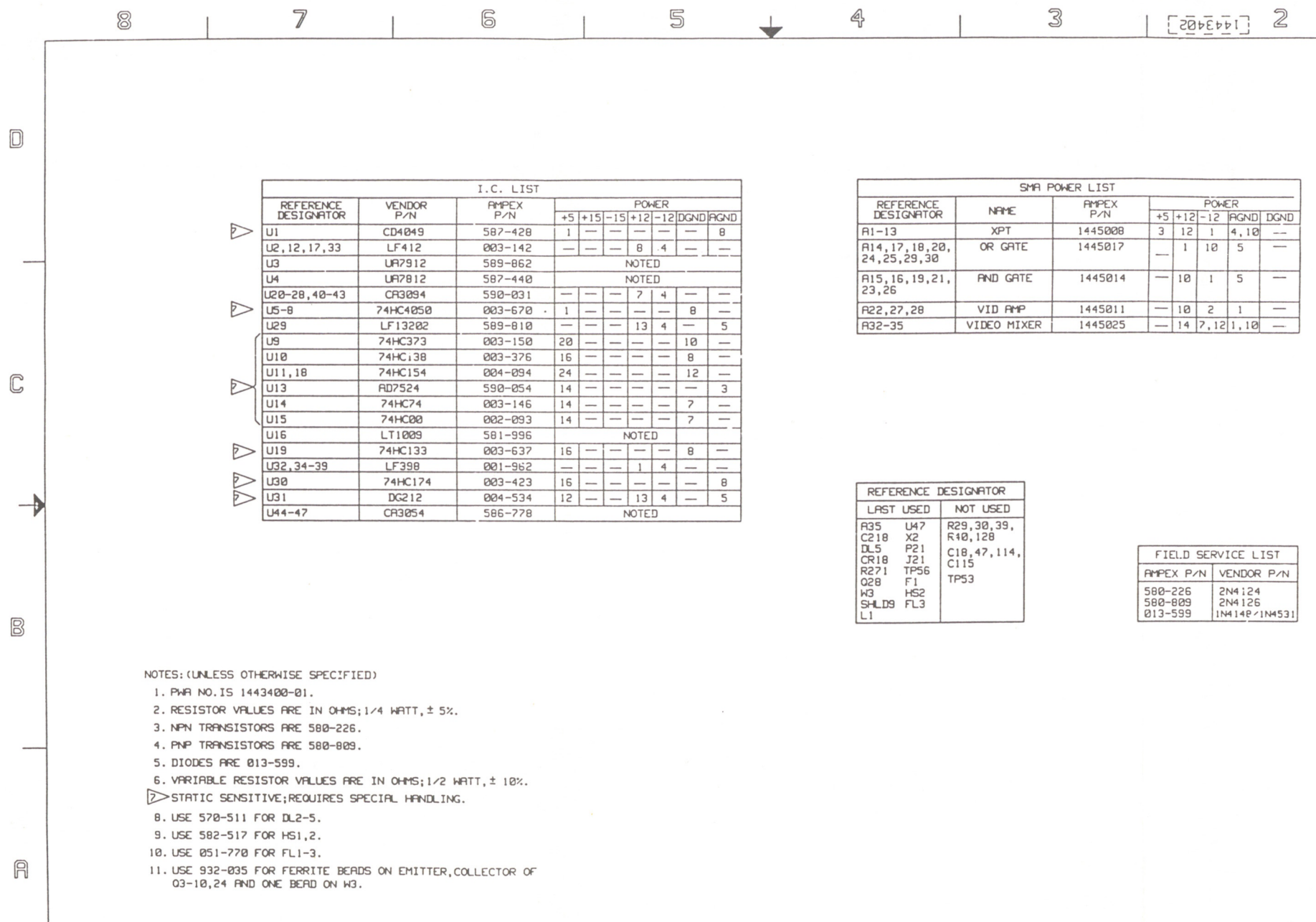
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115	589-810	IC, LF13202		U29	1
116	581-996	IC, LT1009		U16	1
117					
118	587-440	IC, UA7812		U4	1
119	589-862	IC, UA7912		U3	1
120					
121					
122	013-599	DIODE, 1N4148/1N4531		CR1-18	18
123	580-226	TRANSISTOR, NPN 2N4124	* 2	Q1-10,13-23,28	22
124	580-809	TRANSISTOR, PNP 2N4126	* 2	Q11,12,24-27	6
125	051-770	FERRITE FILTER		FL1-3	3
126	570-511	DELAY LINE, 150nS, BINARY		DL2-5	4
127	1374388-AP	INDUCTOR, VAR., 15uH		L1	1
128	187-259	TEST POINT		TP1-52,54-56	55
129	582-517	HEAT SINK		H1,2	2
130	070-443	FUSE, 3A		F1	1
131	173-734	TERMINAL, BIFURCATED SVAGE		X1,2	2
132	932-035	FERRITE BEAD	* 2	Q3-10,24,V3	19
133	1442853-AB	CONNECTOR, 4 POS.		J5-21	17
134	602-066	JUMPER, 2 POS.		P5-21	A/R
135	582-330	IC SOCKET, 14 PIN		U44-47	4
136	141-129	CONNECTOR, 64 POS. RIGHT ANGLE		J1-4	4
137					
138					
139					
140					
141					
142					
143					
144	530-512	CARD EJECTOR			2
145	1445943-01	CARD STIFFENER		V1,2	2
146	1445008-01	PVA, DUAL CROSSPOINT, SMA	*1	A1-13	13
147	1445011-01	PVA, VIDEO AMPLIFIER, SMA	*1	A22-27,28	3
148	1445014-01	PVA, ANALOG AND GATE, SMA	*1	A15,16,19,21,23,26	6
149	1445017-01	PVA, ANALOG OR GATE, SMA	*1	A14,17,18,20,24,25,29,30	8
150	1445025-01	PVA, VIDEO MIXER, SMA	*1	A32-35	4
151	615-004	WIRE SOLID, BUS 24 AWG		V3	A/R
152	502-551	WASHER, NYLON		J1-4	8

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LM- 1443400-01	A
				SHEET 1 OF 2	
				PAGE 7 OF 7	
ITEM NO.	PART NUMBER	D E S C R I P T I O N	NOTE	REFERENCE DESIGNATOR	QTY
154	CD752	SCREW, METRIC		J1-4,U1,2	A/R
155					
156	CD754	WASHER, METRIC		J1-4,U1,2	A/R
157					
158	CD753	NUT, METRIC		J1-4,U1,2	A/R
159					
160	460-039	RIVET, SWAGE		V1,2	10
* 1. STATIC SENSITIVE: REQUIRES SPECIAL HANDLING. * 2. USE FERRITE BEAD ON EMITTER AND COLLECTOR LEADS REFERENCED IN ITEM # 132, AND BEAD ON V3.					

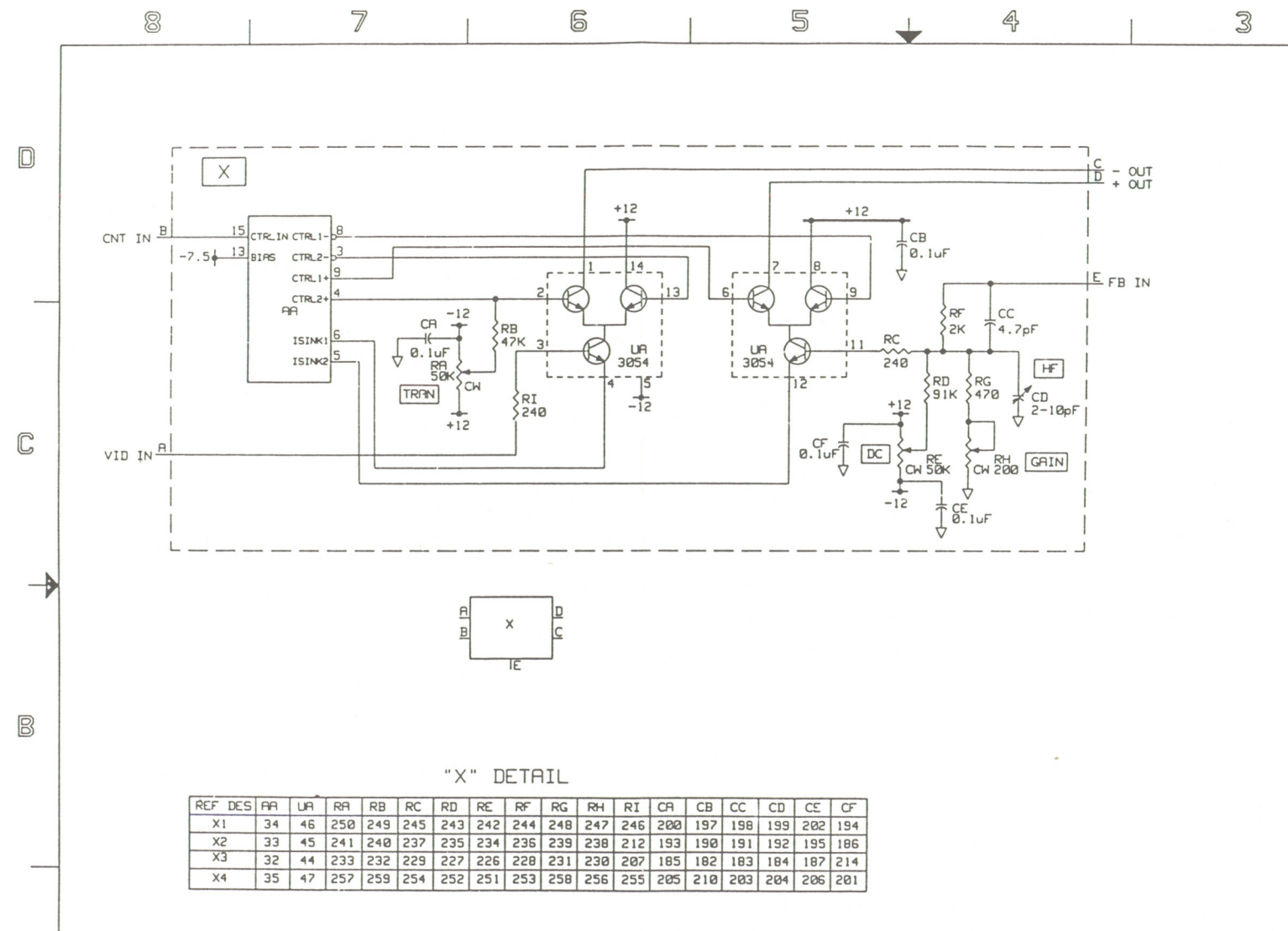




Assembly No. 1443400-01A  
Composite Switcher 1 PWA







Schematic No. 1443402B.  
Composite Switcher 1 PWA  
(Sheet 2 of 10)

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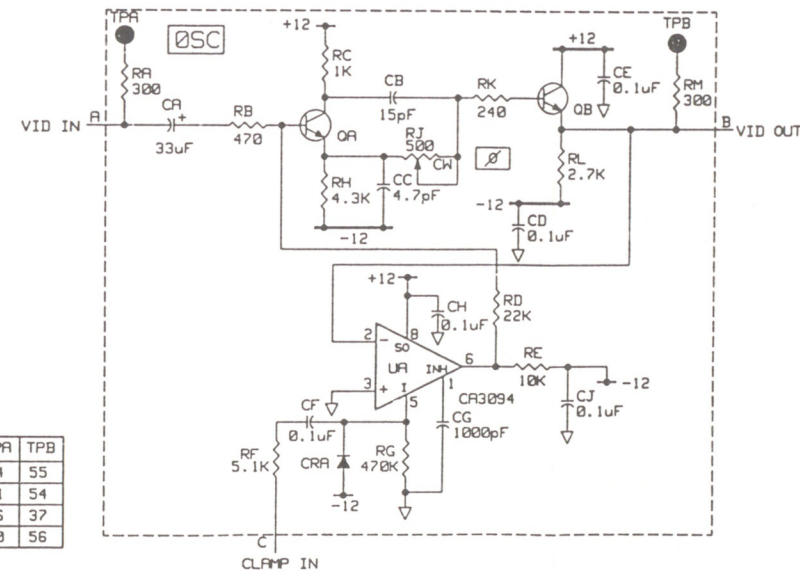
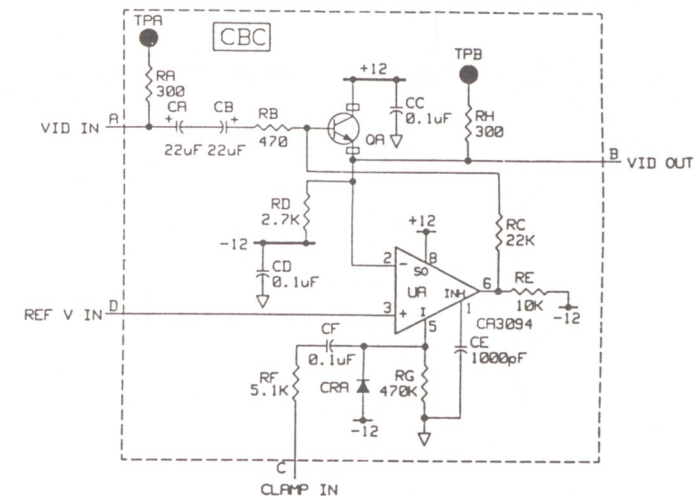
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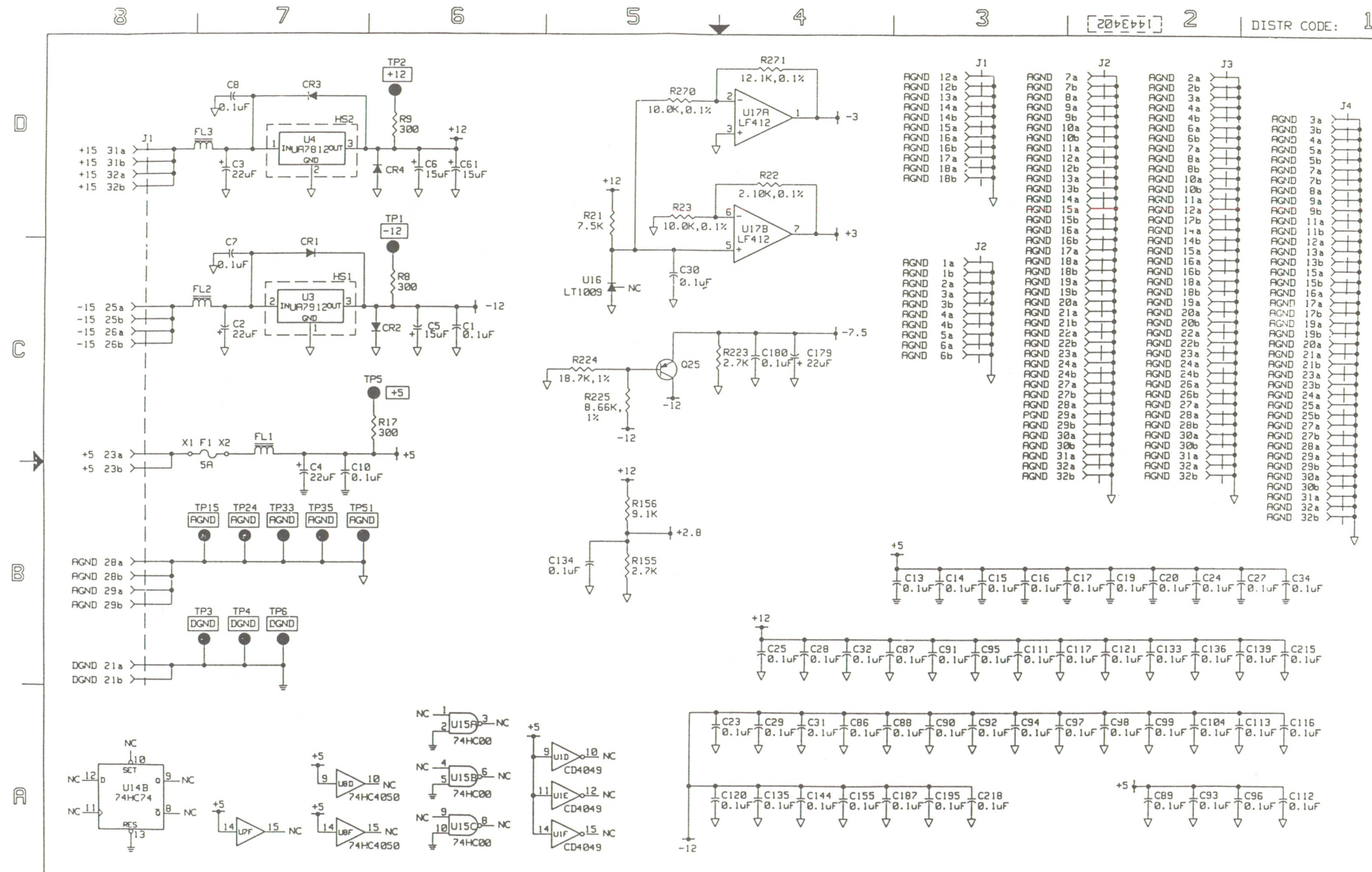
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CBC1	7	8	36	37	38	35	39	41	25	28	31	26	32	34	33	27	3	20	6	
CBC2	13	14	56	57	58	55	59	60	53	56	57	54	58	60	59	55	6	23	9	
CBC3	11	12	50	51	52	49	53	54	45	48	49	46	50	52	51	47	5	27	8	
CBC4	18	19	69	70	71	68	72	73	69	72	73	70	74	76	75	71	8	25	11	
CBC5	16	17	63	64	65	62	66	67	61	64	65	62	66	68	67	63	7	24	10	
CBC6	20	21	75	76	77	74	78	79	77	80	81	78	82	84	83	79	9	26	12	
CBC7	22	23	81	82	83	80	84	85	85	88	89	86	90	92	91	87	10	27	13	
CBC8	9	10	43	44	45	42	46	48	35	38	41	36	42	44	43	37	4	21	7	



"OSC" DETAIL

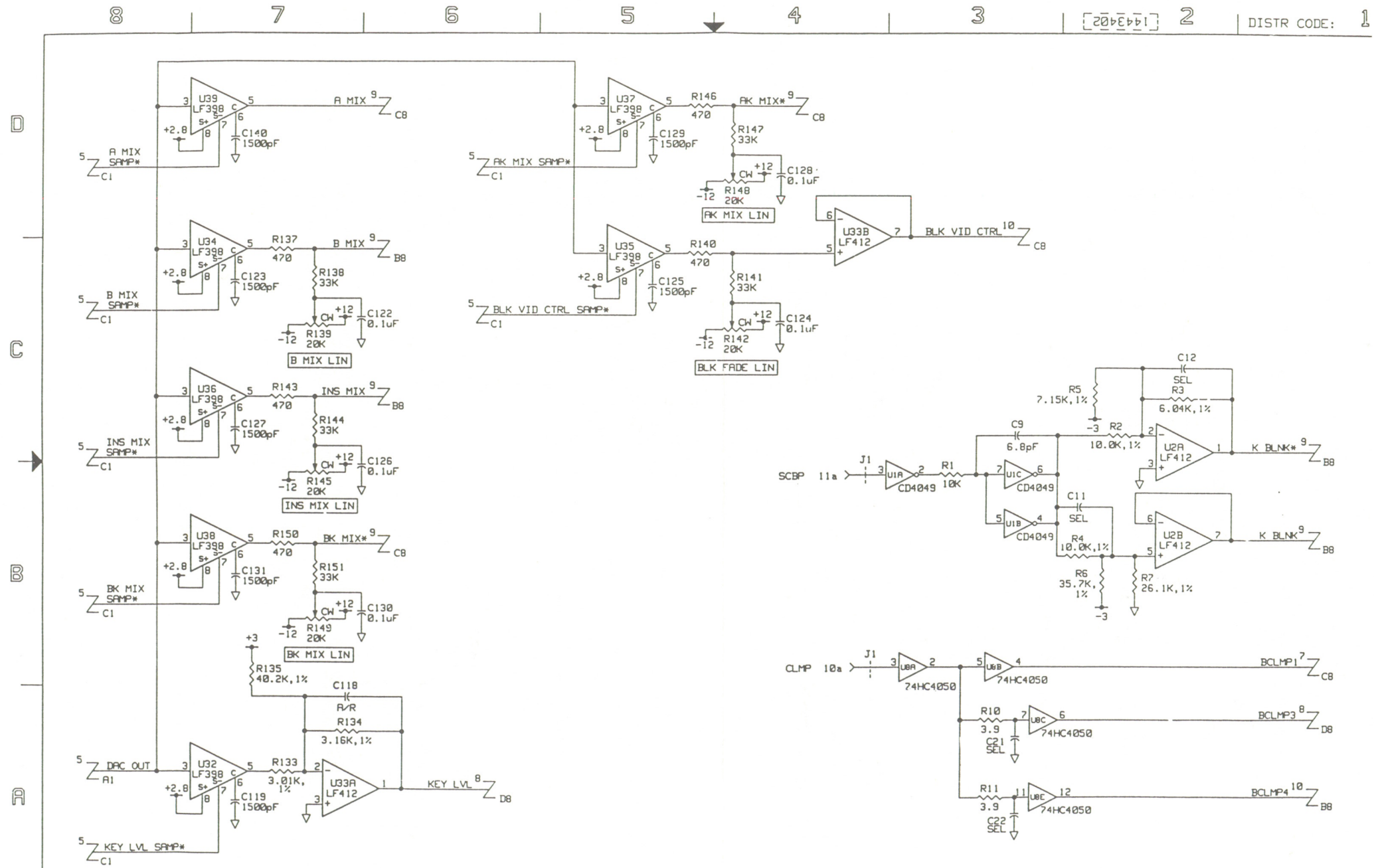
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OSC1	163	167	169	162	166	168	164	165	189	183	184	187	186	210	213	214	188	189	185	182	211	19	18	17	42	44	55	
OSC2	157	160	161	155	158	188	156	159	181	174	176	179	178	205	208	209	180	181	177	175	206	17	16	16	41	41	54	
OSC3	148	153	154	147	149	152	150	151	213	165	170	169	168	201	203	204	172	173	167	166	202	15	14	15	40	36	37	
OSC4	171	175	177	170	172	176	173	174	196	190	192	195	194	215	217	218	196	197	193	191	216	21	20	18	43	50	56	





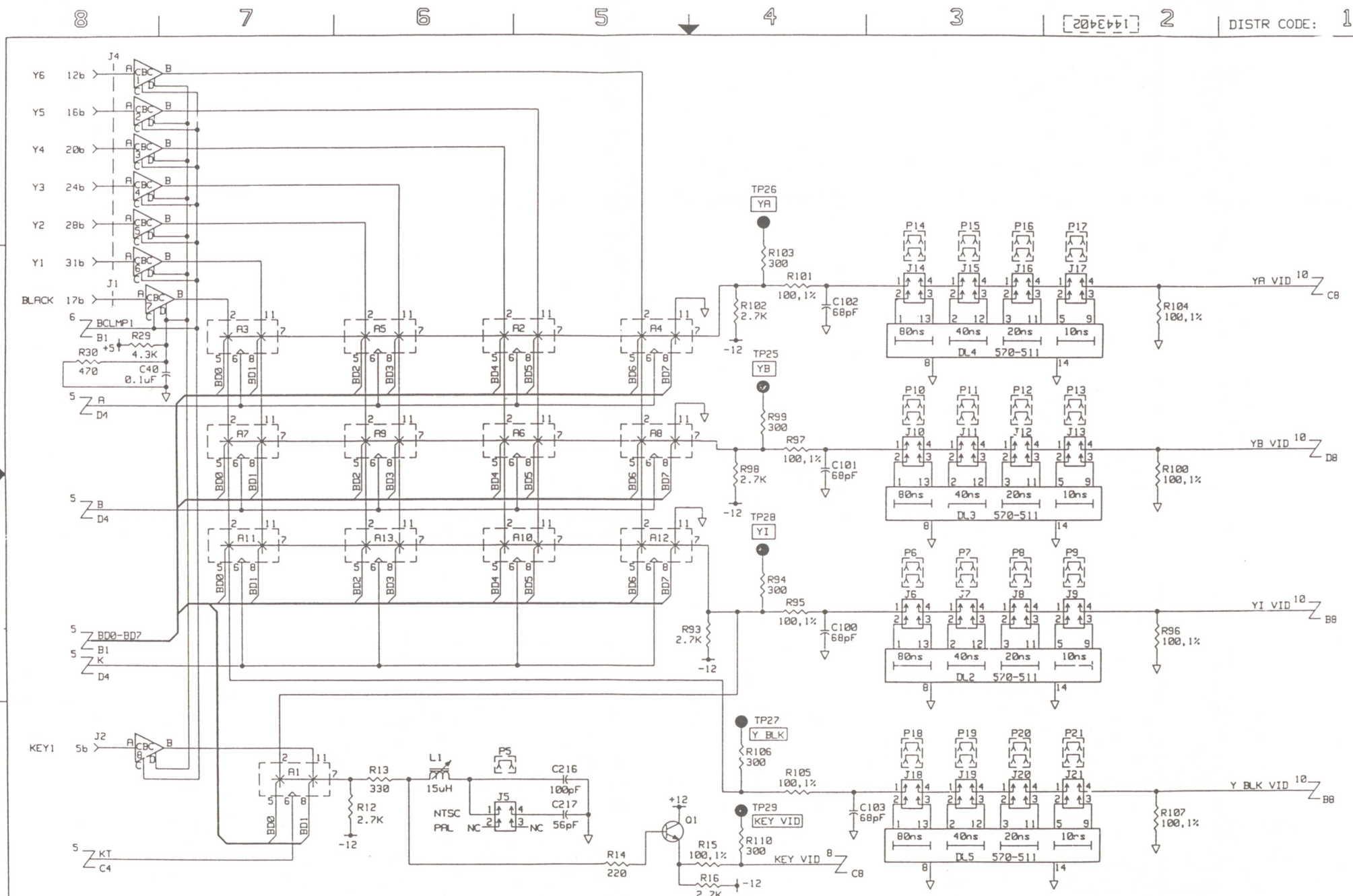
Schematic No. 1443402B.  
Composite Switcher 1 PWA  
(Sheet 4 of 10)





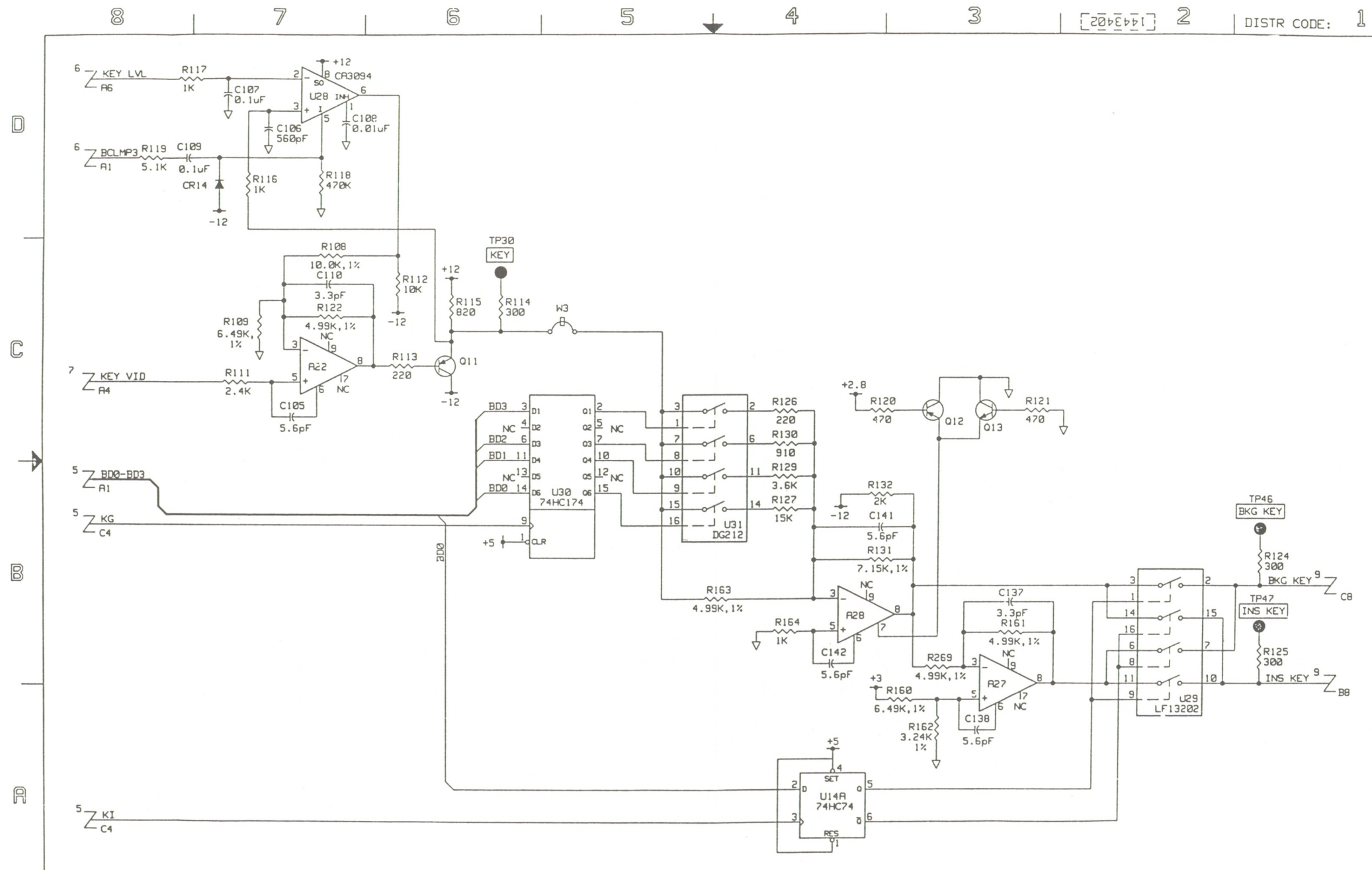
Schematic No. 1443402B.  
Composite Switcher 1 PWA  
(Sheet 6 of 10)



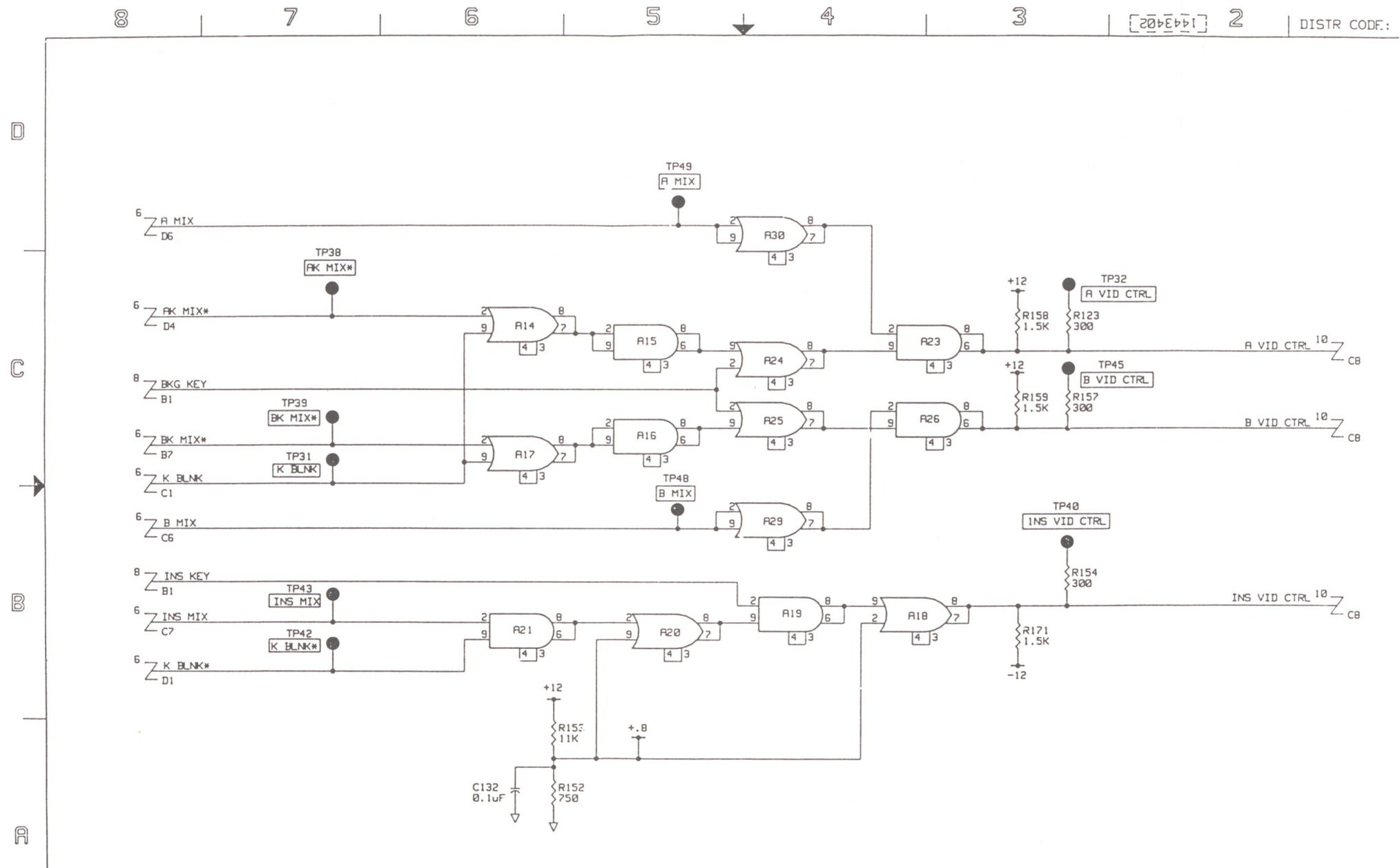


Schematic No. 1443402B.  
Composite Switcher 1 PWA  
(Sheet 7 of 10)

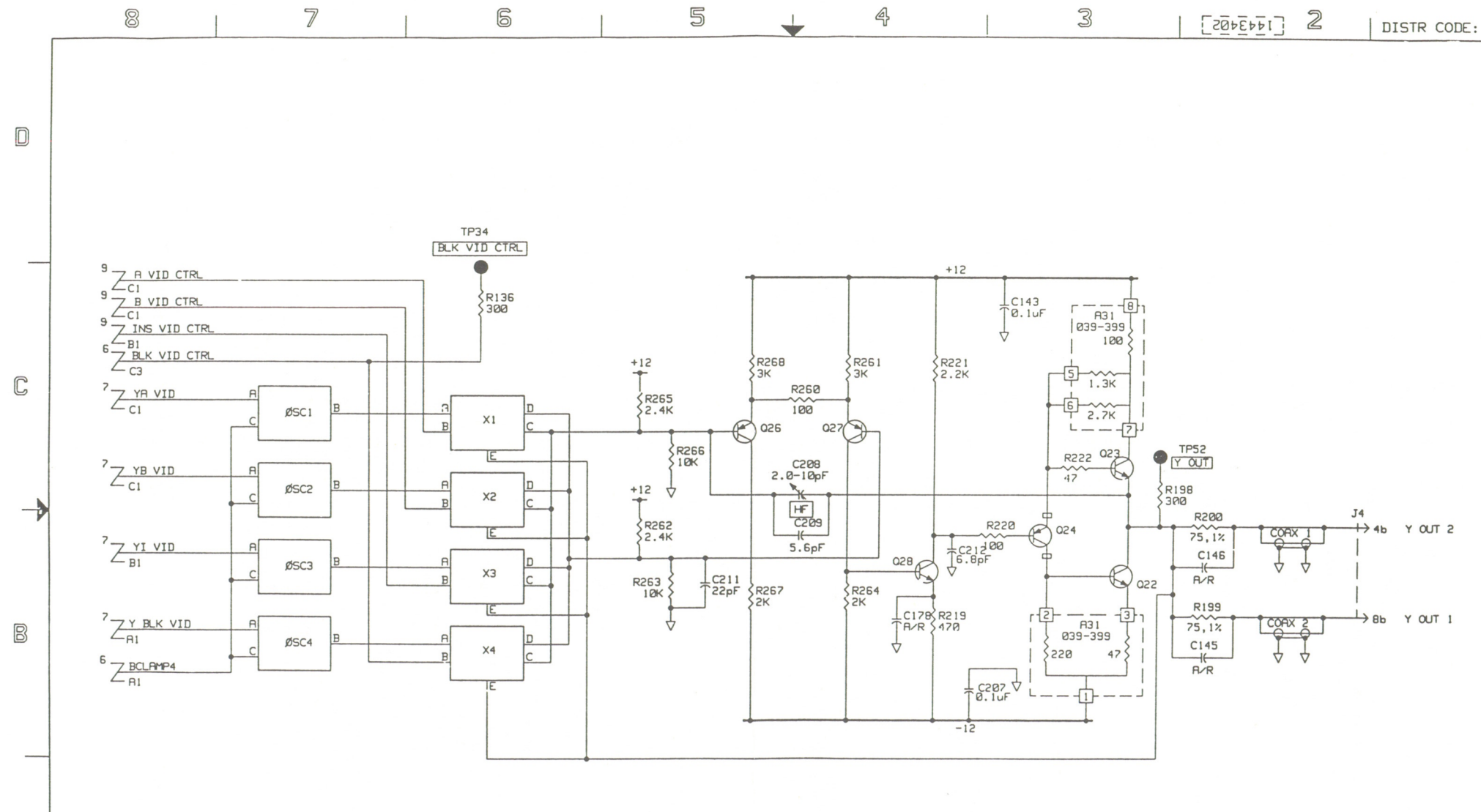




Schematic No. 1443402B.  
Composite Switcher 1 PWA  
(Sheet 8 of 10)



Schematic No. 1443402B.  
Composite Switcher 1 PWA  
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Schematic No. 1443402B.  
Composite Switcher 1 PWA  
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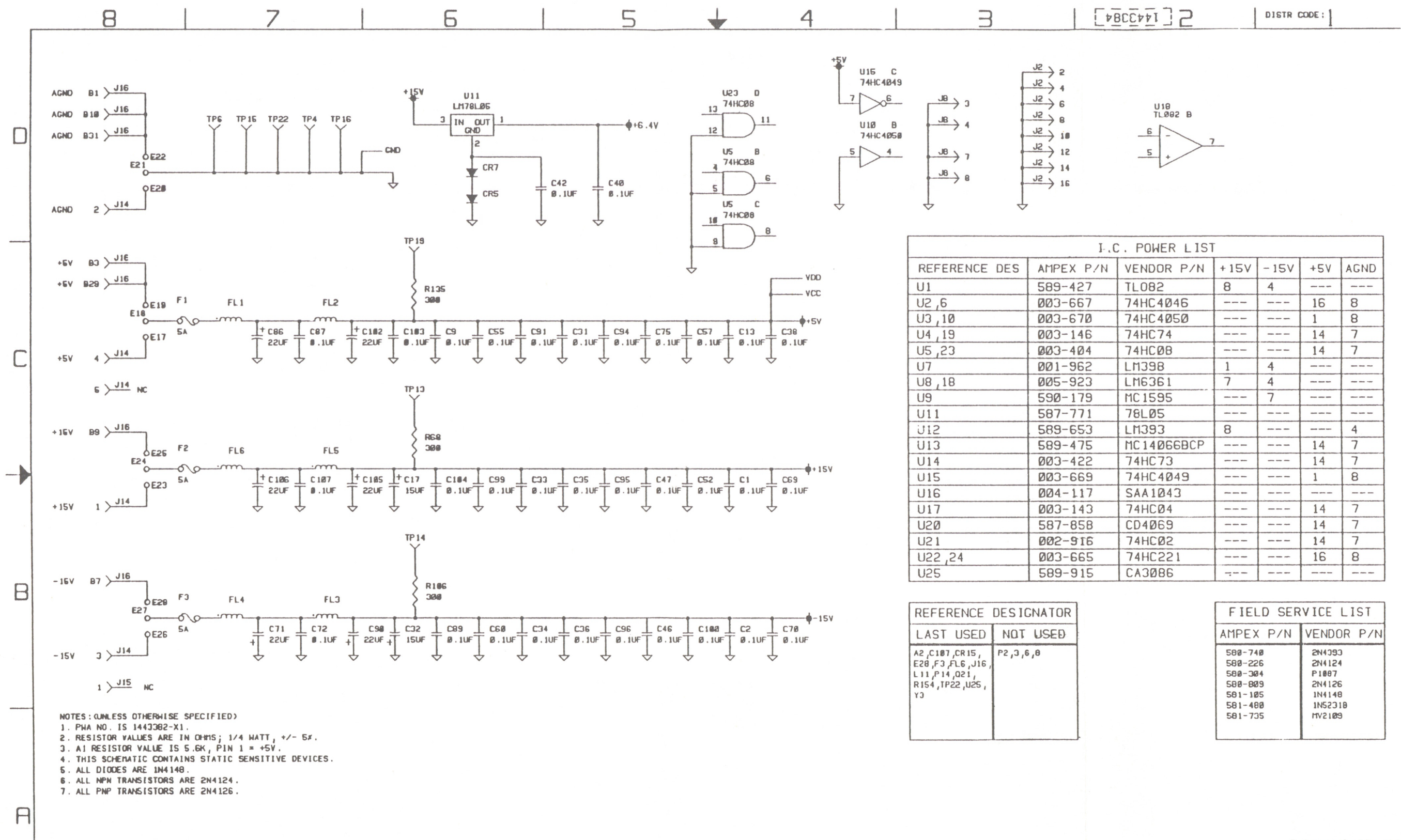
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY
THIS ASSEMBLY CONTAINS STATIC SENSITIVE DEVICES.				
1				REF
2	1443384-X1	SCH,		
3	062-930	RESISTOR, 1.24K OHMS, 1%, 1/4 WATT	R73	1
4	066-715	RESISTOR, 1.2K OHMS, 5%, 1/4 WATT	R125,129,131	3
5	062-626	RESISTOR, 1.40K OHMS, 1%, 1/4 WATT	R42,59,61	3
6	062-932	RESISTOR, 1.50K, 1%, 1/4 WATT	R15,17	2
7	062-933	RESISTOR, 1.54K OHMS, 1%, 1/4 WATT	R72	1
8	066-824	RESISTOR, 1.5K OHMS, 5%, 1/4 WATT	R9,28,76,80,85	5
9	076-824	RESISTOR, 1.8 OHMS, 5%, 1/4 WATT	R56	1
10	076-157	RESISTOR, 1.96K OHMS, 1%, 1/4 WATT	R137	1
11	062-983	RESISTOR, 10.0K OHMS, 1%, 1/4 WATT	R65	1
12	062-847	RESISTOR, 100 OHMS, 1%, 1/4 WATT	R151,153	2
13	066-849	RESISTOR, 100K OHMS, 5%, 1/4 WATT	R24,26,32,121	4
14	066-830	RESISTOR, 10K OHMS, 5%, 1/4 WATT	R5,11,23,25,90,122,127,150,152,154	10
15	066-752	RESISTOR, 11.8K OHMS, 1%, 1/4 WATT	R37,39	2
16	062-986	RESISTOR, 12.1K OHMS, 1%, 1/4 WATT	R2	1
17	066-661	RESISTOR, 120 OHMS, 5%, 1/4 WATT	R120	1
18	066-864	RESISTOR, 13K OHMS, 5%, 1/4 WATT	R109	1
19	062-862	RESISTOR, 143 OHMS, 1%, 1/4 WATT	R79,84	2
20	066-813	RESISTOR, 150 OHMS, 5%, 1/4 WATT	R13	1
21	066-974	RESISTOR, 150K OHMS, 5%, 1/4 WATT	R96	1
22	076-011	RESISTOR, 180K OHMS, 5%, 1/4 WATT	R55	1
23	066-665	RESISTOR, 1K OHMS, 5%, 1/4 WATT	R75,111-112,118,145	5
24	066-673	RESISTOR, 1M OHMS, 5%, 1/4 WATT	R91	1
25	062-643	RESISTOR, 2.00K OHMS, 1%, 1/4 WATT	R82,139	2
26	066-689	RESISTOR, 2.2K OHMS, 5%, 1/4 WATT	R98,144	2
27	062-947	RESISTOR, 2.49K OHMS, 1%, 1/4 WATT	R33,35,62,87,101,104,133	7
28	066-666	RESISTOR, 2.7K OHMS, 5%, 1/4 WATT	R34,36,130,132,140	5
29	066-662	RESISTOR, 200 OHMS, 5%, 1/4 WATT	R6,29-30	3



AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS	LM- 1443382-X1 SHEET 1 OF 2 PAGE 2 OF 4	1
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY
30	066-873	RESISTOR, 20K OHMS, 5%, 1/4 WATT	R141	1
31	066-663	RESISTOR, 220 OHMS, 5%, 1/4 WATT	R63-64	2
32	066-859	RESISTOR, 240 OHMS, 5%, 1/4 WATT	R142-143	2
33	066-007	RESISTOR, 27.4K OHMS, 1%, 1/4 WATT	R22	1
34	066-866	RESISTOR, 27K OHMS, 5%, 1/4 WATT	R110	1
35	066-826	RESISTOR, 2K OHMS, 5%, 1/4 WATT	R100,114,123,126,149	5
36	062-639	RESISTOR, 3.01K OHMS, 1%, 1/4 WATT	R3,45,83	3
37	062-640	RESISTOR, 3.09K OHMS, 1%, 1/4 WATT	R40	1
38	062-956	RESISTOR, 3.40K OHMS, 1%, 1/4 WATT	R58,60	2
39	066-863	RESISTOR, 3.6K OHMS, 5%, 1/4 WATT	R115	1
40	062-961	RESISTOR, 3.92K OHMS, 1%, 1/4 WATT	R41,44	2
41	066-827	RESISTOR, 3.9K OHMS, 5%, 1/4 WATT	R50-51,74,89,92	5
42	066-815	RESISTOR, 300 OHMS, 5%, 1/4 WATT	R8,31,66,68,106, 135	6
43	066-846	RESISTOR, 30K OHMS, 5%, 1/4 WATT	R116	1
44	062-887	RESISTOR, 332 OHMS, 1%, 1/4 WATT	R78,86	2
45	066-847	RESISTOR, 33K OHMS, 5%, 1/4 WATT	R4	1
46	066-667	RESISTOR, 3K OHMS, 5%, 1/4 WATT	R95,102,108,117	4
47	066-435	RESISTOR, 4.42K OHMS, 1%, 1/4 WATT	R136	1
48	066-668	RESISTOR, 4.7K OHMS, 5%, 1/4 WATT	R21	1
49	062-968	RESISTOR, 4.99K OHMS, 1%, 1/4 WATT	R105	1
50	066-012	RESISTOR, 40.2K OHMS, 1%, 1/4 WATT	R134	1
51	076-054	RESISTOR, 430K OHMS, 5%, 1/4 WATT	R1	1
52	066-818	RESISTOR, 470 OHMS, 5%, 1/4 WATT	R47	1
53	066-034	RESISTOR, 475K OHMS, 1%, 1/4 WATT	R138	1
54	066-842	RESISTOR, 5.1K OHMS, 5%, 1/4 WATT	R48-49,52-53,128, 148	6
55	066-718	RESISTOR, 5.6K OHMS, 5%, 1/4 WATT	R70,77,81	3
56	066-664	RESISTOR, 510 OHMS, 5%, 1/4 WATT	R43,103	2
57	066-833	RESISTOR, 56K OHMS, 5%, 1/4 WATT	R94	1
58	066-160	RESISTOR, 6.04K OHMS, 1%, 1/4 WATT	R88	1
59	062-974	RESISTOR, 6.19K OHMS, 1%, 1/4 WATT	R46	1
60	066-843	RESISTOR, 6.2K OHMS, 5%, 1/4 WATT	R12	1
61	066-829	RESISTOR, 6.8K OHMS, 5%, 1/4 WATT	R57,97,99	3
62	066-711	RESISTOR, 7.5K OHMS, 5%, 1/4 WATT	R124	1
63	062-836	RESISTOR, 75.0 OHMS, 1%, 1/4 WATT	R67	1
64	066-820	RESISTOR, 750 OHMS, 5%, 1/4 WATT	R71,119	2
65	066-958	RESISTOR, 75K OHMS, 5%, 1/4 WATT	R93	1
66	062-917	RESISTOR, 768 OHMS, 1%, 1/4 WATT	R38	1
67	066-669	RESISTOR, 8.2K OHMS, 5%, 1/4 WATT	R113	1
68	066-670	RESISTOR, 9.1K OHMS, 5%, 1/4 WATT	R147	1
69	066-857	RESISTOR, 91K OHMS, 5%, 1/4 WATT	R146	1
70	A/R	RESISTOR, SELECT	R3,27,29-30,54,69,78,107	4
71	075-565	VARIABLE RESISTOR, 1K, SIDE-ADJUST	R14,16	2
72	075-573	VARIABLE RESISTOR, 20K, SIDE-ADJUST	R20	1
73	058-567	VARIABLE RESISTOR, 2K, SIDE ADJUST	R7,10	2
74	075-567	VARIABLE RESISTOR, 2K, SIDE-ADJUST	R19	1
75	075-569	VARIABLE RESISTOR, 5K, SIDE-ADJUST	R18	1
76	064-898	CAPACITOR, 0.1UF, CERAMIC, 20%	C3,5-6,8,14-16,24-25, 40,42,44-45,51,54,81,83,85	18
77	064-227	CAPACITOR, 1000PF, CERAMIC, 5%	C12,26,43,63-64,80	6
78	064-217	CAPACITOR, 100PF, CERAMIC, 5%	C28,92	2
79	064-206	CAPACITOR, 10PF, CERAMIC, 5%	C21,53,84	3

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS	LM- 1443382-X1 SHEET 1 OF 2 PAGE 3 OF 4	1
ITEM NO.	PART NUMBER	DESCRIPTION	REF DESIG	QTY
80	064-218	CAPACITOR, 120PF, CERAMIC, 5%	C10	1
81	064-207	CAPACITOR, 12PF, CERAMIC, 5%	C77,88	2
82	064-229	CAPACITOR, 1500PF, CERAMIC, 5%	C74	1
83	069-253	CAPACITOR, 1500PF, POLYPROPYLENE, 5%	C18	1
84	064-219	CAPACITOR, 150PF, CERAMIC, 5%	C7,20,39	3
85	037-893	CAPACITOR, 15UF, TANTALUM, 20%, 20V	C17,32,37,59	4
86	064-209	CAPACITOR, 18PF, CERAMIC, 5%	C67	1
87	064-230	CAPACITOR, 2200PF, MICA, 5%	C48,79	2
88	064-220	CAPACITOR, 220PF, CERAMIC, 5%	C11,23,41,58,61,66,98, 101	8
89	037-954	CAPACITOR, 22UF, TANTALUM, 20%, 15V	C71,86,90,97,102, 105-106	7
90	064-210	CAPACITOR, 27PF, CERAMIC, 5%	C50	1
91	064-221	CAPACITOR, 330PF, CERAMIC, 5%	C62,65	2
92	064-212	CAPACITOR, 39PF, CERAMIC, 5%	C19	1
93	064-202	CAPACITOR, 4.7PF, CERAMIC, 5%	C68,76	2
94	064-223	CAPACITOR, 470PF, CERAMIC, 5%	C56,73,93	3
95	064-214	CAPACITOR, 56PF, CERAMIC, 5%	C4,49	2
96	064-216	CAPACITOR, 82PF, CERAMIC, 5%	C27	1
97	064-653	CAPACITOR, CERAMIC, 0.1UF, 20%, 50V	C1-2,9,13,31, 33-36,38,46-47,52,55,57,60, 69-70,72,75,87,89,91,94-96, 99-100,103-104,107	31
98	038-341	VARIABLE CAPACITOR, 4-18PF, CERAMIC, TO	C22,82	2
99	002-916	I.C., 74HC02	U21	1
100	003-143	I.C., 74HC04	U17	1
101	003-404	I.C., 74HC08	U5,23	2
102	003-665	I.C., 74HC221	U22,24	2
103	003-667	I.C., 74HC4046	U2,6	2
104	003-669	I.C., 74HC4049	U15	1
105	003-670	I.C., 74HC4050	U3,10	2
106	003-422	I.C., 74HC73	U14	1
107	003-146	I.C., 74HC74	U4,19	2
108	589-915	I.C., CA3086	U25	1
109	587-858	I.C., CD4069	U20	1
110	589-653	I.C., LM393	U12	1
111	001-962	I.C., LM398	U7	1
112	005-923	I.C., LM6361	U8,18	2
113	587-771	I.C., LM78L05	U11	1
114	589-475	I.C., MC14066BCP	U13	1
115	590-179	I.C., MC1595	U9	1
116	004-117	I.C., SAA1043	U16	1
117	589-427	I.C., TL082, DUAL OPAMP	U1	1
118	582-330	SOCKET, 14-PIN DIP	U4-5,9,13-14,17,19-21,23,25	11
119	582-331	SOCKET, 16-PIN DIP	U2-3,6,10,15,22,24	7
120	582-281	SOCKET, 28-PIN DIP	U16	1
121	582-329	SOCKET, 8-PIN DIP	U1,7-8,12,18	5
122	039-152	RESISTOR NETWORK, 2K, 16 PIN DIP	A2	1
123	039-267	RESISTOR NETWORK, 5.6K, 8-PIN SIP	A1	1
124	580-740	TRANSISTOR, 2N4393, NJFET	Q9-10	2
125	580-226	TRANSISTOR, NPN, 2N4124	Q2-8,11-13,15,20-21,25-26	15
126	580-304	TRANSISTOR, P1087, PJFET	Q16-17	2
127	580-809	TRANSISTOR, PNP, 2N4126	Q1,14,18-19	4

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS	LM- 1443382-X1 SHEET 1 OF 2 PAGE 4 OF 4	1
ITEM NO.	PART NUMBER	D E S C R I P T I O N	REF DESIG	QTY
128	581-620	LED, YELLOW, RIGHT-ANGLE	DS1	1
129	051-659	INDUCTOR, 1.2UH	L5,8	2
130	051-813	INDUCTOR, 22UH	L3-4,7	3
131	068-073	INDUCTOR, 6.8UH	L6,9-11	4
132	1374388-AH	VARIABLE INDUCTOR, 4.23-5.17UH, STANDARD	L1-2	2
133	051-770	FERRITE CHOKE	FL1-6	6
134	187-259	TEST POINT	TP1-22	22
135	135-117	CONNECTOR, 10 PIN, RIGHT ANGLE	J8	1
137	135-994	CONNECTOR, 5 PIN, RIGHT ANGLE	J14	1
138	140-692	CONNECTOR, BNC, CIRCUIT MOUNT	J3	1
139	1442853-AB	CONNECTOR, IDC, 4 PIN	J1,4-7,9-13	10
140	017-183	CRYSTAL, 14.302446 MHZ	Y3	1
141	017-161	CRYSTAL, 14.318180 MHZ	Y1	1
142	017-196	CRYSTAL, 17.734475 MHZ	Y2	1
143	070-443	FUSE, 5A	F1-3	3
144	A/R	ENO TYPE SOLDER TERMINAL	E1-28	28
146	581-105	DIODE, 1N4148, SILICON	CR1-2,4-5,7-8,10-17	14
147	581-480	DIODE, 1N5231B, SILICON	CR9	1
149	581-735	VARACTOR, MV2109	CR3,6	2
150	173-734	TERMINAL, BIFURCATED SWAG	X1-6	6
151	1430883-01	BRACKET, MOUNTING		1
152	204-098	SCREW, PPH M3 X 8MM		1
153	204-147	LOCKWASHER, INT. M3		1
154	1443488-01	CABLE ASSEMBLY	J2	1



NOTES: (UNLESS OTHERWISE SPECIFIED)  
1. PWA NO. IS 1443382-X1.  
2. RESISTOR VALUES ARE IN OHMS; 1/4 WATT, +/- 5%.  
3. A1 RESISTOR VALUE IS 5.6K, PIN 1 = +5V.  
4. THIS SCHEMATIC CONTAINS STATIC SENSITIVE DEVICES.  
5. ALL DIODES ARE 1N4148.  
6. ALL NPN TRANSISTORS ARE 2N4124.  
7. ALL PNP TRANSISTORS ARE 2N4126.

I.C. POWER LIST						
REFERENCE DES	AMPEX P/N	VENDOR P/N	+15V	-15V	+5V	AGND
U1	589-427	TL082	8	4	---	---
U2,6	003-667	74HC4046	---	---	16	8
U3,10	003-670	74HC4050	---	---	1	8
U4,19	003-146	74HC74	---	---	14	7
U5,23	003-404	74HC08	---	---	14	7
U7	001-962	LM398	1	4	---	---
U8,18	005-923	LM6361	7	4	---	---
U9	590-179	MC1595	---	7	---	---
U11	587-771	78L05	---	---	---	---
U12	589-653	LM393	8	---	---	4
U13	589-475	MC14066BCP	---	---	14	7
U14	003-422	74HC73	---	---	14	7
U15	003-669	74HC4049	---	---	1	8
U16	004-117	SAA1043	---	---	---	---
U17	003-143	74HC04	---	---	14	7
U20	587-858	CD4069	---	---	14	7
U21	002-916	74HC02	---	---	14	7
U22,24	003-665	74HC221	---	---	16	8
U25	589-915	CA3086	---	---	---	---

REFERENCE DESIGNATOR	
LAST USED	NOT USED
A2, C107, CR15, E28, F3, FL6, J16, L11, P14, Q21, R154, TP22, U25, Y3	P2, 3, 6, 8

FIELD SERVICE LIST	
AMPEX P/N	VENDOR P/N
580-740	2N4393
580-226	2N4124
580-304	P1007
580-009	2N4126
581-105	1N4148
581-400	1N52310
581-735	MY2109

Schematic No. 1443384-X1.  
Video Timing PWA  
(Sheet 1 of 5)





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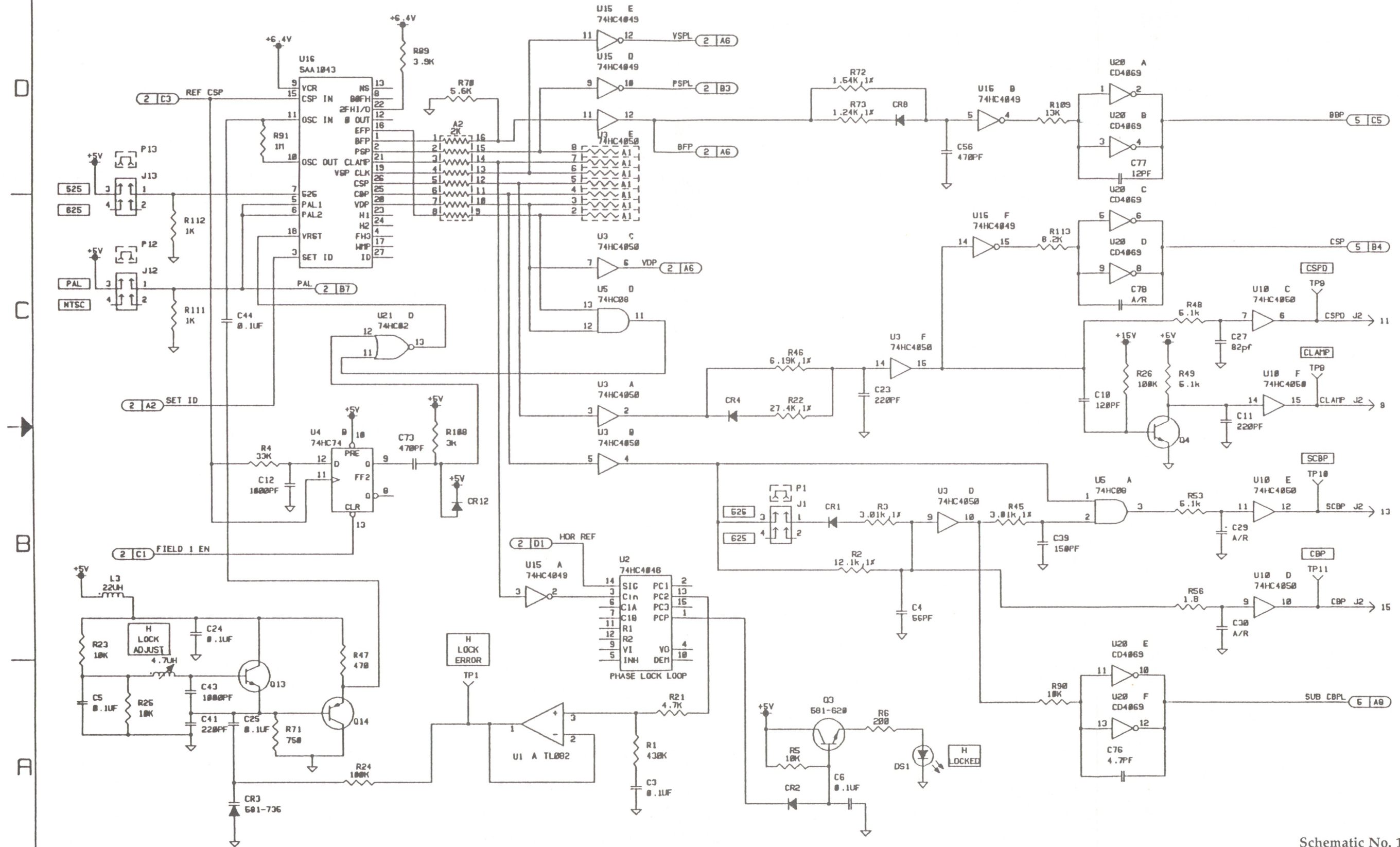
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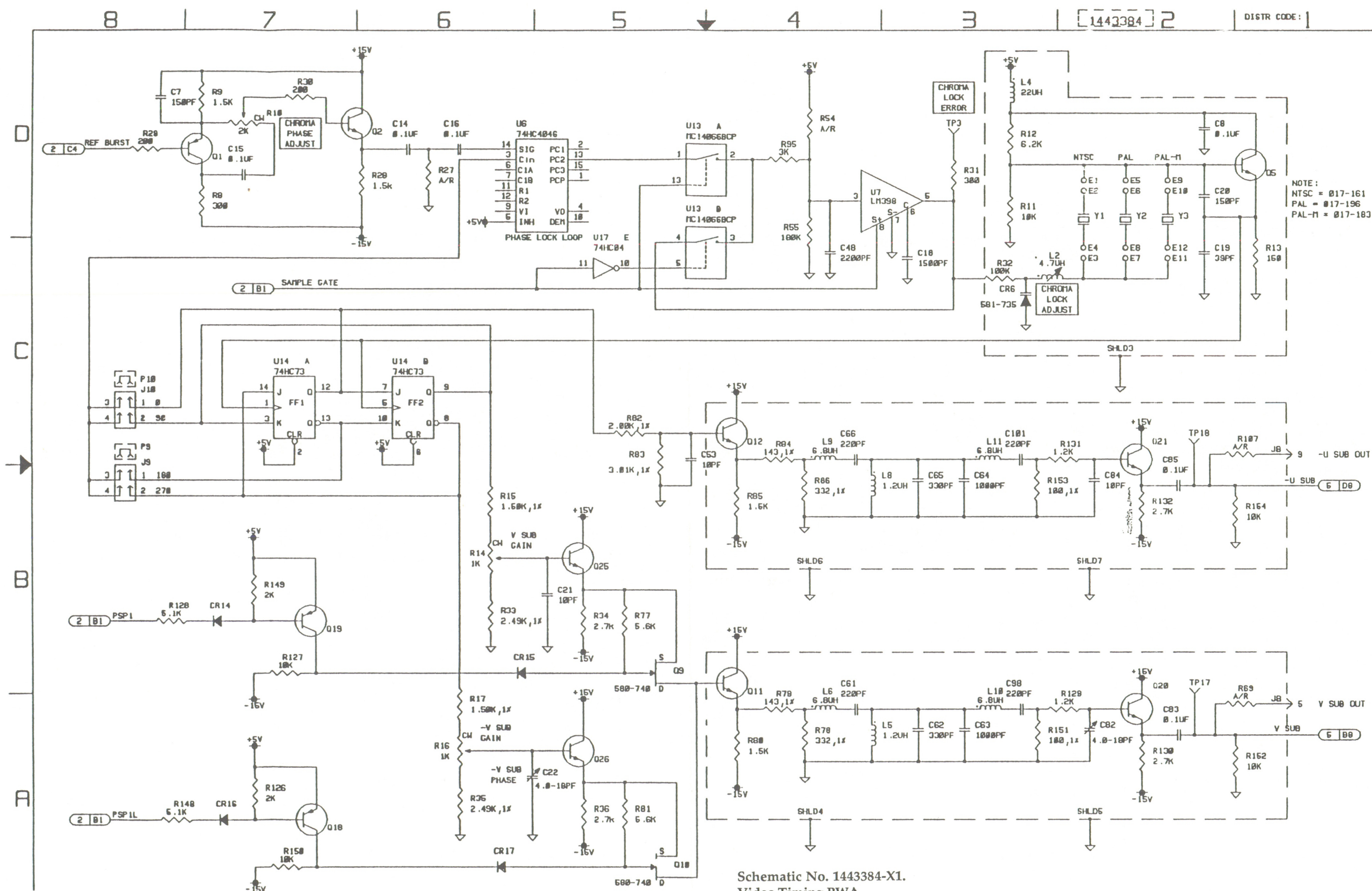
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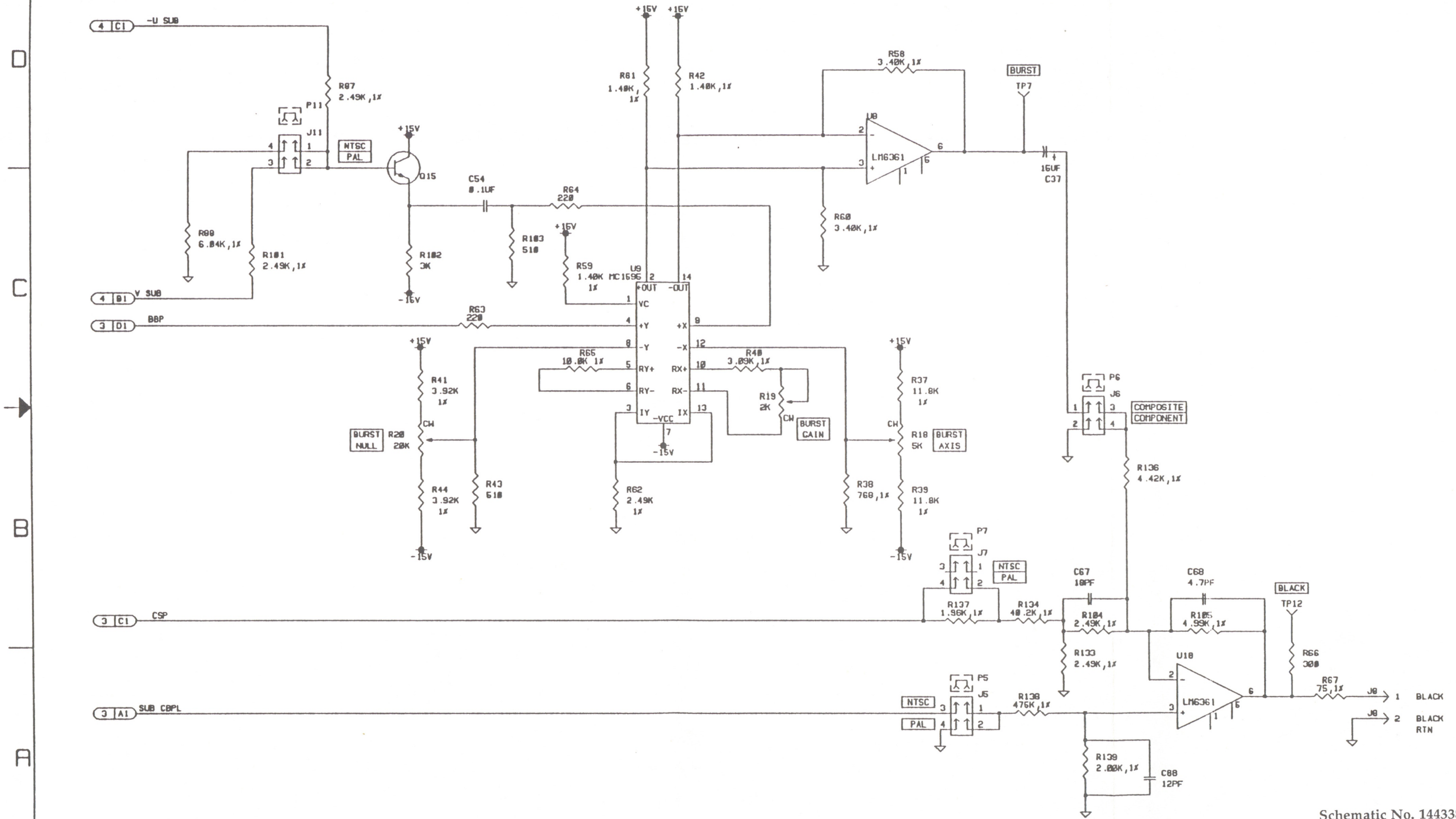


Schematic No. 1443384-X1.  
Video Timing PWA  
(Sheet 3 of 5)





Schematic No. 1443384-X1.  
Video Timing PWA  
(Sheet 4 of 5)



Schematic No. 1443384-X1.  
Video Timing PWA  
(Sheet 5 of 5)



**REV. A**

[illegible]

LM.431267

[illegible]

ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
		* indicates a NOTE see last page of List Of Materials			
1					
2	1445926-02	SCHEMATIC			REF
3	066-811	RESISTOR, 51 OHMS, 5Z, 1/4 WATT	R104,120,181,196,232,241		6
4	062-864	RESISTOR, 150 OHMS, 1Z, 1/4 WATT	R175,223		2
5	066-815	RESISTOR, 300 OHMS, 5Z, 1/4 WATT	R1,4,5,20,110,188,206,207,213,253,259,270,302,307,341-343,364,365		19
6	062-904	RESISTOR, 511 OHMS, 1Z, 1/4 WATT	R160		1
7	066-840	RESISTOR, 680 OHMS, 5Z, 1/4 WATT	R284-289,324-329		12
8	062-908	RESISTOR, 604 OHMS, 1Z, 1/4 WATT	R345		1
9	066-866	RESISTOR, 27K OHMS, 5Z, 1/4 WATT	R103,109,182,195,231,240		6
10	062-624	RESISTOR, 1K OHMS, 1Z, 1/4 WATT	R336,337		2
12	066-666	RESISTOR, 2.7K OHMS, 5Z, 1/4 WATT	R298,301		2
13	066-827	RESISTOR, 3.9K OHMS, 5Z, 1/4 WATT	R105,130,180,197,233,242		6
14	066-435	RESISTOR, 4.42K, 1Z, 1/4 WATT	R189,191,214,236,344		5
15	066-826	RESISTOR, 2K, 5Z, 1/4 WATT	R9,10,167,366		4
16	062-968	RESISTOR, 4.99K, 1Z, 1/4 WATT	R252,254,255,346,348,350,353,355,357		9
17	079-973	RESISTOR, 4.99K 0.1Z, 1/8 WATT	R16-19,26-29,36-39,46,47-49,56-59,66-69,76,77-79,86-89,96-99,116,117-119,126-129,136,137-139,146-149,156,157-159		56
		*1			
18	062-972	RESISTOR, 5.62K, 1Z, 1/4 WATT	R190,192,215,237		4

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LM- 1445924-02	B
				PAGE 2 OF 5	
ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
19	062-642	RESISTOR, 6.81K, 1X, 1/4 WATT	R264-265,271,272,308,309,312,313		8
20	066-513	RESISTOR, 8.66K, 1X, 1/4 WATT	R296,299		2
21					
22	066-670	RESISOTR, 9.1K, 5X, 1/4 WATT	R256		1
23	066-830	RESISTOR, 10K, 5X, 1/4 WATT	R7,170,176,218,224,279,283,319,323		9
24	062-983	RESISTOR, 10K, 1X, 1/4 WATT	R251		1
25	079-974	RESISTOR, 10K 0.1X, 1/8 WATT	R11,21,31,41,51,61,71,81,91,111,121,131,141,151,168,171,174,177,216,219,222,225		22
		*1			
26	062-985	RESISTOR, 10.7K, 1X, 1/4 WATT	R164		1
27	076-343	RESISTOR, 11.5K, 1X, 1/4 WATT	R161		1
28	062-983	RESISTOR, 10.0K, 1X, 1/4 WATT	R165		1
29	192-653	RESISTOR, 14K, 0.1X, 1/8 WATT	R14,15,24,25,34,35,44,45,54,55,64,65,74,75,84,85,94,95,114,115,124,125,134,135,144,145,154,155		28
		*1			
30	062-998	RESISTOR, 18.7K, 1X, 1/4 WATT	R297,300		2
31	066-873	RESISTOR, 20K, 5X, 1/4 WATT	R101,107,184,193,229,238		6
32	062-693	RESISTOR, 20K, 1X, 1/4 WATT	R30,40,50,60,70,80,90,100,102,108,178,183,194,199,230,235,239,244		18
33	190-696	RESISTOR, 20K, 0.1X, 1/8 WATT	R172,173,220,221		4
		*1			
34	066-925	RESISTOR, 22.1K, 1X, 1/4 WATT	R204,212		2
35	066-006	RESISOTR, 26.7K, 1X, 1/4 WATT	R262,263,267,268,310,311,314,315		8
36	066-714	RESISTOR, 35.7K, 1X, 1/4 WATT	R150,166,205		3
37	192-652	RESISTOR, 35.7K, 0.1X, 1/8 WATT	R12,13,22,23,32,33,42,43,52,53,62,63,72,73,82,83,92,93,112,113,122,123,132,133,142,147,152,153		28
		*1			
39	066-014	RESISTOR, 47.5K, 1X, 1/4 WATT	R162,290-295,330-335		11
40	079-996	RESISTOR, 49.9K, 0.1X, 1/8 WATT	R185,186,227,228		4
		*1			
41	066-833	RESISTOR, 56K, 5X, 1/4 WATT	R8		1
42	192-655	RESISTOR, 88.7K, 0.1X, 1/8 WATT	R187,226		2
		*1			
43	066-849	RESISTOR, 100K, 5X, 1/4 WATT	R106,140,179,198,234,243,260,261,266,269,276,277,278,280,281,282,303-306,316-318,320-322		26
44	076-194	RESISTOR, 174K, 1X, 1/4 WATT	R163		1
45	066-154	RESISTOR, 205K, 1X, 1/4 WATT	R203,211		2



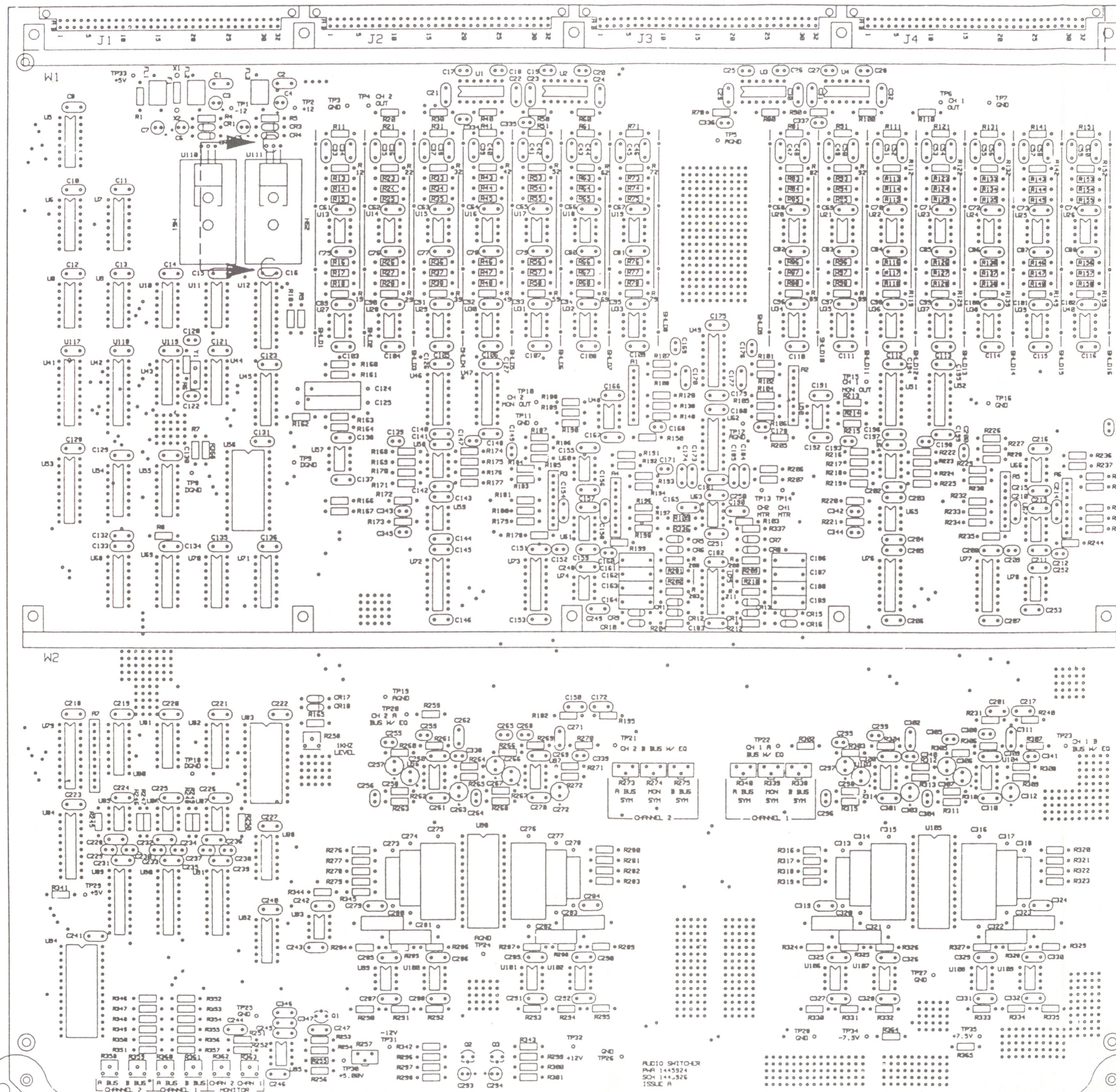
AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS	LM- 1445924-02	B	
			PAGE 3 OF 5		
ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY
46	062-601	RESISTOR, 100K, 1Z, 1/4 WATT	R347,349,351,352,354,356		6
47	066-023	RESISTOR,237K, 1Z, 1/4 WATT	R200,208		2
48	066-878	RESISTOR, 649K, 1Z, 1/4 WATT	R201,202,209,210		4
49	066-673	RESISTOR, 1M, 5Z, 1/4 WATT	R6		1
50	.....	RESISTOR, A/R	R257		A/R
51	075-647	RESISTOR, VAR., 5K, SIDE ADJ.	R258		1
52	075-646	RESISTOR, VAR., 10K, SIDE ADJ.	R358-363		6
53	075-439	RESISTOR, VAR., 50K, SIDE ADJ.	R273-275,338-340		6
54	062-623	RESISTOR, 976 OHMS, 1Z, 1/4 WATT	R217,169		2
55	066-974	RESISTOR, 150K, 5Z, 1/4 WATT	R245-250		6
56	039-241	RESISTOR NETWORK, 4.7K,10 PIN,SIP	A7		1
57	064-208	CAPACITOR, 15pF, 100V, 5Z, CER.	C139,147,193,198		4
58	064-206	CAPACITOR, 10pF, 100V, 5Z, CER.	C229,230,233,234,237238		6
59	064-856	CAPACITOR, 22pF, 100V, 5Z, CER.	C17-20,25-28		8
60	064-217	CAPACITOR, 100pF, 100V, 5Z, CER.	C120,122,149,169,171176,200,255,259,265268,295,299,305,308333,338-341		20
61	164-533	CAPACITOR, 390pF, 100V, 5Z, CER.	C279,284,319,324		4
62	064-212	CAPACITOR, 39pF, 100V, 5Z, CER.	C209,212,337,152,160,334,178,168,336,335		10
63	069-345	CAPACITOR, 3900pF, 30V, 5Z, POLY	C280,283,320,323		4
64	069-342	CAPACITOR, .02uF, 30V, 5Z, POLY	C273,278,313,318		4
65	069-346	CAPACITOR, .039uF, 30V, 5Z, POLY	C281,282,321,322		4
66	069-341	CAPACITOR, .068uF, 30V, 2Z, POLY	C124,125		2
67	064-062	CAPACITOR, .1uF,100V, 20Z, CER.	C1,2,8,10,11-16,21-2429-32,61-119,121,123,126-138,140-146,148,150,151,153,155-157,159,165-167,172,175,179-183,190-192,194-194-197,199,201-208211,213,215-228,231,232,235,236,239-243245,246,248-253,260,261,270,285-292300,301,309,310,325-332,769,346		191
68	069-343	CAPACITOR, .2uF, 30V, 5Z, POLY	C274,277,314,317		4
69	069-245	CAPACITOR, .47uF, 250V, 5Z, POLY	C161-164,186-189		8
70	037-298	CAPACITOR, .47uF, 6V, 20Z, TANT.	C257,258,263,266,267,272,297,298,303,306,307,312,		12
71	064-314	CAPACITOR, 1uF, 50V, 20Z, CER.	C173,174,184,185		4
72	069-344	CAPACITOR, 2uF, 30V, 5Z, POLY	C275,276,315,316		4
73	063-578	CAPACITOR, 22uF, 25V, 20Z, ALUM.	C3,4,5,6,293,294		6
74	063-579	CAPACITOR, 47uF, 10V, 20Z, ALUM.	C7		1
75	.....	CAPACITOR, A/R	C244,247,256,264,296304,347		A/R
76	064-316	CAPACITOR, 2.2uF,100V,20Z,CERAMIC	C33-60,154,158,210,214262,271,302,311,170,177		38

AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LM- 1445924-02		B
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ITEM NO.	PART NUMBER	DESCRIPTION	NOTE	REFERENCE DESIGNATOR	QTY	
			177			
77	003-404	IC., 74HC08	*1	U92	1	
78	002-093	IC., 74HC00	*1	U44	1	
79	003-143	IC., 74HC04	*1	U9,82	2	
80	003-146	IC., 74HC74	*1	U8,81,88	3	
81	003-376	IC., 74HC138	*1	U80	1	
82	003-147	IC., 74HC154	*1	U83	1	
83	005-563	IC., 74HC165	*1	U54,55	2	
84	003-418	IC., 74HC175	*1	U68,69,70,71	4	
85	005-572	IC., 74HC294	*1	U45	1	
86	003-150	IC., 74HC373	*1	U41,42,53,79	4	
87	003-151	IC., 74HC374	*1	U84	1	
88	003-017	IC., 74HC393	*1	U10,11	2	
89	003-670	IC., 74HC4050	*1	U5,6,7	3	
90	003-152	IC., AD7528		U89-91	3	
91	001-032	IC., ADC0808		U94	1	
92	587-858	IC., CD4069	*1	U43	1	
93	003-677	IC., DBX2150		A1-6	6	
94	005-696	IC., DG508	*1	U72,73,76,77	4	
95	004-553	IC., DG509	*1	U49,62	2	
96	005-748	IC., DG5043	*1	U47,52	2	
97	004-533	IC., DG5045	*1	U46,51	2	
98						
99	003-142	IC., LP412A		U63,74,78,85-87,93,95	8	
100	005-564	IC., LM833		U58,59,64,65,96,97 99-104,106-109	16	
101	005-565	IC., LM835		U98,105	2	
102	581-996	IC., LT1009		Q1	1	
103	589-960	IC., NE5533		U1-4	4	
104	1445914-01	PAL, PARALLEL TO SERIAL IF		U12	1	
105	589-425	IC., TL074		U75	1	
106	589-427	IC., TL082		U13-40,48,50,57,60,61, 66,67	35	
107	587-440	IC., UA7812	*1	U111	1	
108	589-862	IC., UA7912	*1	U110	1	
109	590-957	IC., MM6116	*1	U56	1	
110						
111	582-333	IC. SOCKET, 20 PIN	REF: U12		1	
112	582-517	HEATSINK	HS1,2		2	
113	064-199	CAPACITOR, 2.2pF CERAMIC 100V	C342-345		4	
114	581-105	DIODE, 1N4148	C1-8,11-14,17,18		14	
115	581-480	DIODE, 1N5231B, ZENER	CR9,10,15,16		4	
116	580-226	TRANSISTOR, NPN, 2N4124	Q3		1	
117	580-809	TRANSISTOR, PNP, 2N4126	Q2		1	
118	051-770	FERRITE FILTER	FL1-3		3	
119	187-259	TEST POINT	TP1-16,18-35		34	
120	070-443	FUSE, 5 AMP	F1		1	
121	595-076	CRYSTAL, 512KHz	Y1		1	
122	141-129	CONNECTOR, 64 POS. RIGHT ANG' E	J1-4		4	
123	530-512	CARD EJECTOR			2	
124	204-758	SCREW, PPH, M2.5 X 0.45 X 10MM	J1-4		8	
125	204-757	NUT, HEX, M2.5 X 0.45	J1-4		8	
126	204-785	WASHER, LOCK, INT, M2.5	J1-4		8	



AMPEX CORPORATION REDWOOD CITY, CALIFORNIA		LIST OF MATERIALS		LN- 1445924-02	B
				PAGE 5 OF 5	
ITEM NO.	PART NUMBER	D E S C R I P T I O N	N O T E	R E F E R E N C E D E S I G N A T O R	Q T Y
127	204-099	SCREW, PPH, 3M X 10	U110,111,V1,2		14
128	204-171	NUT, M3 X 5.5 MMDF X 2.4MMTH	U110,111,V1,2		14
129	204-159	WASHER, PLAIN, M3	U110,111,V1,2		14
130	1445943-01	CARD STIFFENER	V1,2		2
131	204-153	LOCKWASHER, M3	U110,111,V1,2		14
132	173-734	TERMINAL, BIFURCATED SVAG	X1,X2		2
*1     STATIC SENSITIVE: REQUIRES SPECIAL HANDLING					







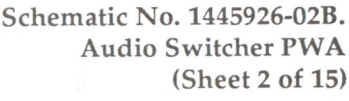
REFERENCE DES	AMPEX P/N	VENDOR P/N	+15V	-15V	+12V	-12V	+5V	AGND	DGND
U89,90,91	003-152	AD7528	---	---	---	---	17	1	5
U94	001-032	ADC0808	---	---	---	---	11	---	13
A1-6	003-677	DBX2150	---	---	---	---	---	---	---
U72,73,76,77	005-696	DC508	---	---	13	3	---	14	---
U49,62	004-553	DC509	---	---	14	3	---	15	---
U47,52	005-748	DC5043	---	---	11	14	---	13	---
U46,51	004-533	DC5045	---	---	11	14	---	13	---
U63,74,78,85-87,93,95	003-142	LF412A	---	---	8	4	---	---	---
U58,59,64,65,96,97,99-104,106-109	005-564	LM833	---	---	8	4	---	---	---
U98,105	005-565	LMC835	---	---	---	---	---	28	13
U1-4	589-996	NE5533	11	4	---	---	---	---	---
U12	1445914	PAL16L8	---	---	---	---	20	---	10
U75	589-425	TL074	---	---	4	11	---	---	---
U13-40,48,50,57,60,61,65,66	589-427	TL082	---	---	8	4	---	---	---
U56	590-957	HM6116	---	---	---	---	24	---	12
U44	002-093	74HC00	---	---	---	---	14	---	7
U9,82	003-143	74HC04	---	---	---	---	14	---	7
U92	003-404	74HC08	---	---	---	---	14	---	7
U8,81,88	003-146	74HC74	---	---	---	---	14	---	7
U80	003-376	74HC138	---	---	---	---	16	---	8
U83	003-147	47HC154	---	---	---	---	24	---	12
U54,55	005-563	74HC165	---	---	---	---	16	---	8
U67-70	003-418	74HC175	---	---	---	---	16	---	8
U45	005-572	74HC294	---	---	---	---	16	---	8
U41,42,53,79	003-150	74HC373	---	---	---	---	20	---	10
U84	003-151	74HC374	---	---	---	---	20	---	10
U10,11	003-017	74HC393	---	---	---	---	16	---	8
U5,6,7	003-670	74HC4050	---	---	---	---	1	---	8

NOTES: (UNLESS OTHERWISE SPECIFIED)  
1. PMA NO. IS 1445924-02.  
2. RESISTOR VALUES ARE IN OHMS; 1/4 WATT, +/-5%.  
3. USE 051-770 FOR FL1-3.  
4. NPN TRANSISTORS ARE 579-123.  
5. PNP TRANSISTORS ARE 579-124.  
6. DIODES ARE 501-105.  
7. VARIABLE RESISTOR VALUES ARE IN OHMS; 1/2 WATT, +/-20%.  
▽ STATIC SENSITIVE; REQUIRES SPECIAL HANDLING

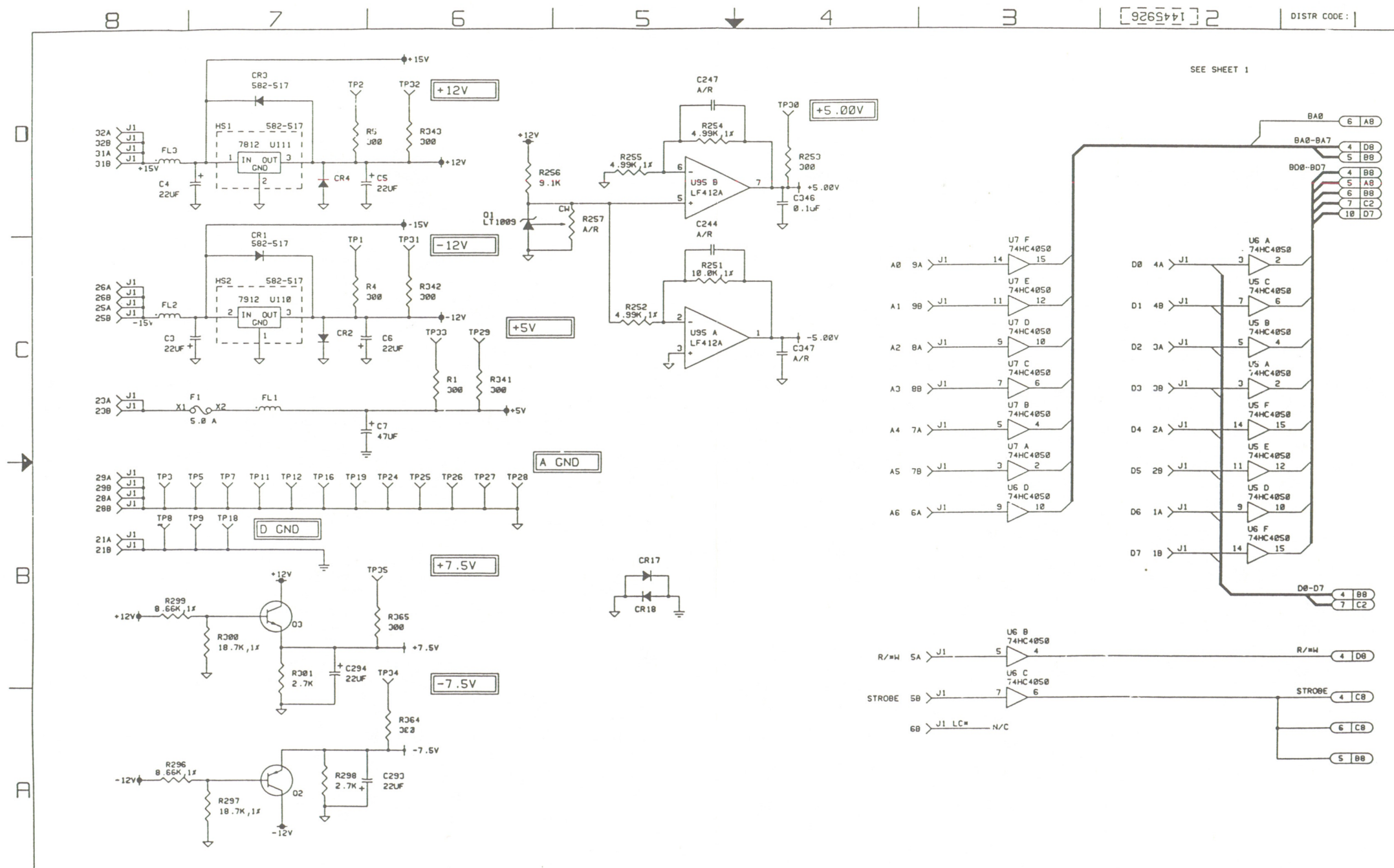
REFERENCE DESIGNATOR		
LAST USED		NOT USED
R366	HS2	R2, R3
C347	O3	C9, C254
U111	Y1	TP17
CR18	A7	
TP35	J4	
FL3		
FL1		

FIELD SERVICE LIST	
AMPEX P/N	VENDOR P/N
581-105	1N4148
579-123	2N4124
579-124	2N4126
581-480	1N5231B

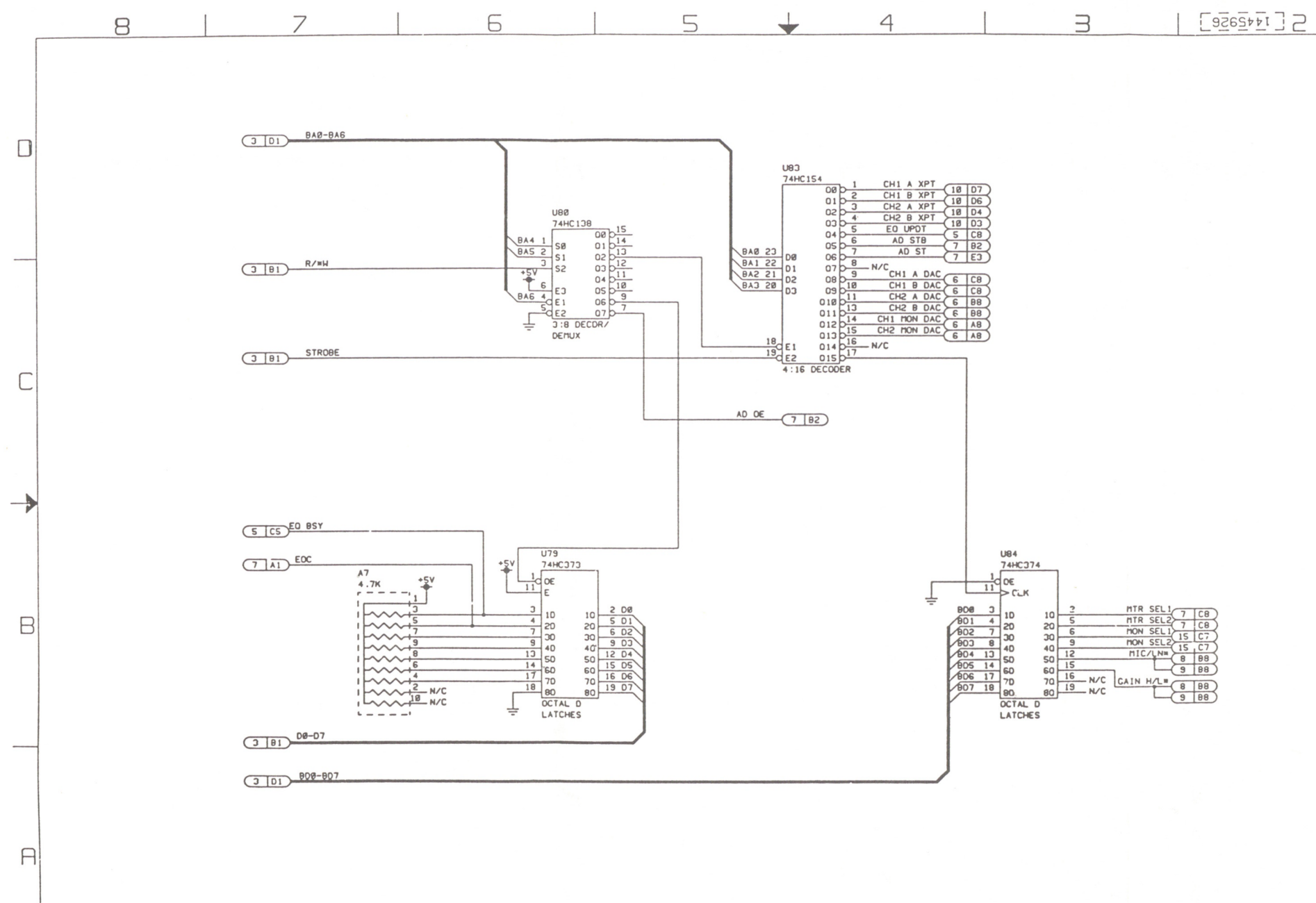
Schematic No. 1445926-02B.  
Audio Switcher PWA  
(Sheet 1 of 15)







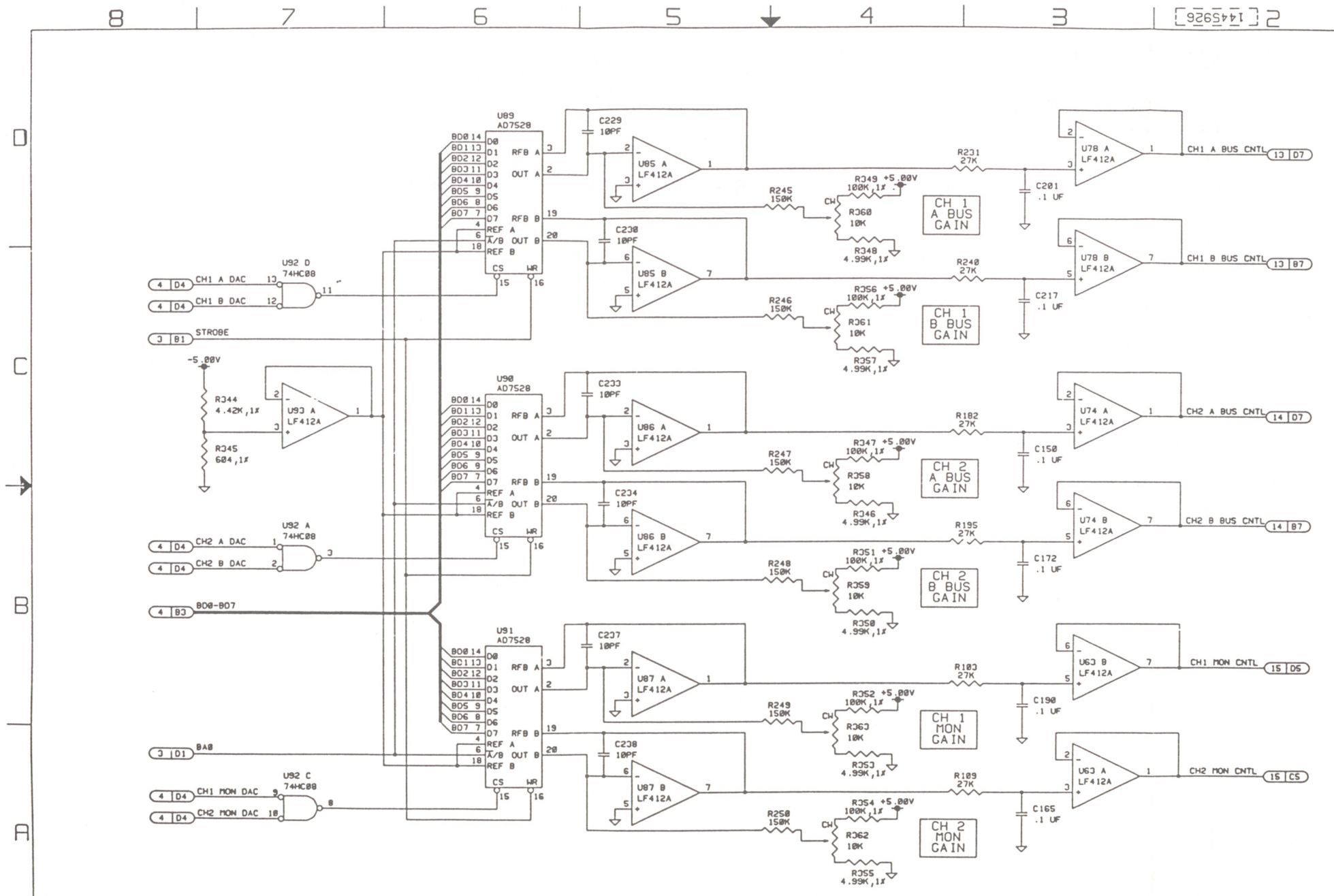
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Audio Switcher PWA  
(Sheet 3 of 15)



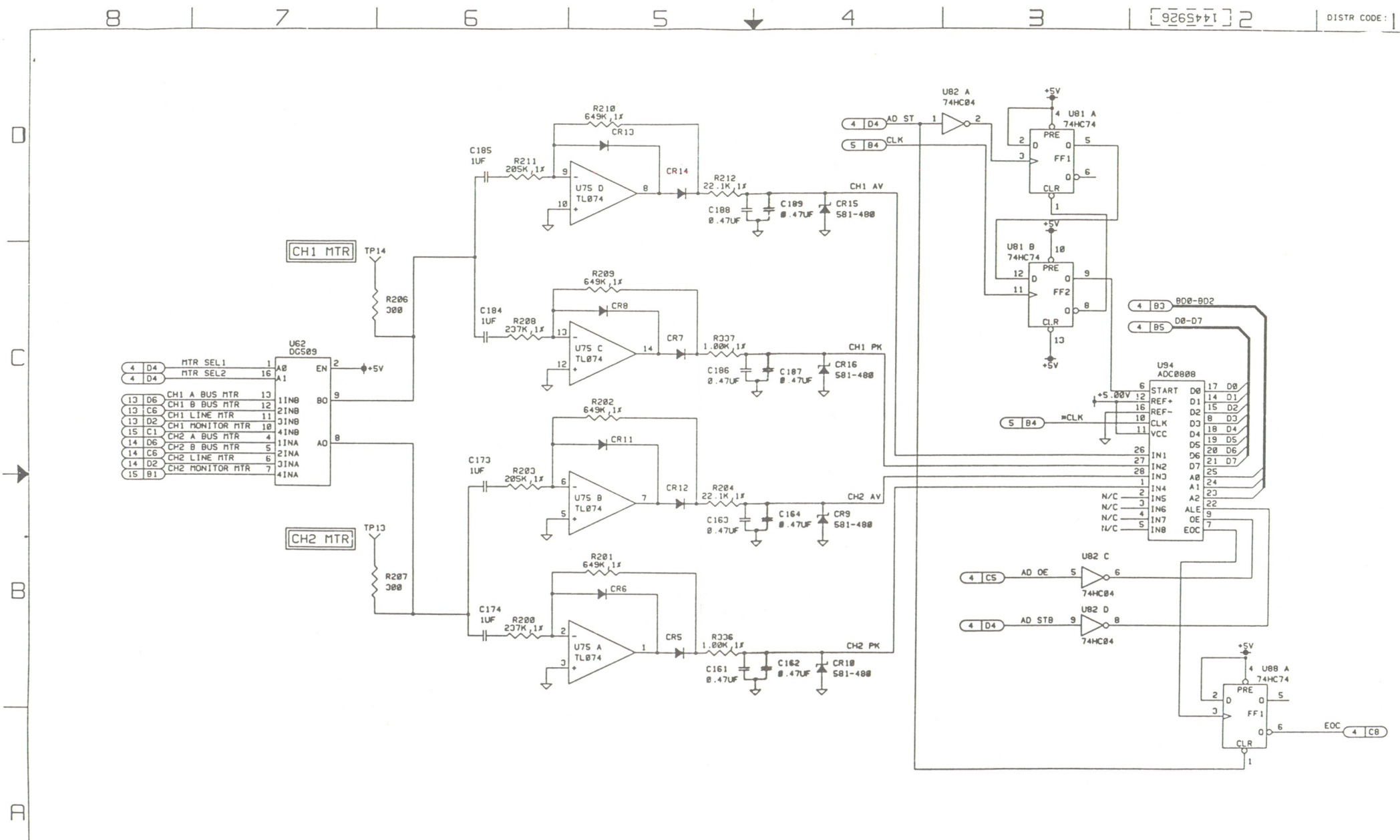
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Audio Switcher PWA  
(Sheet 4 of 15)







Schematic No. 1445926-02B.  
Audio Switcher PWA  
(Sheet 6 of 15)

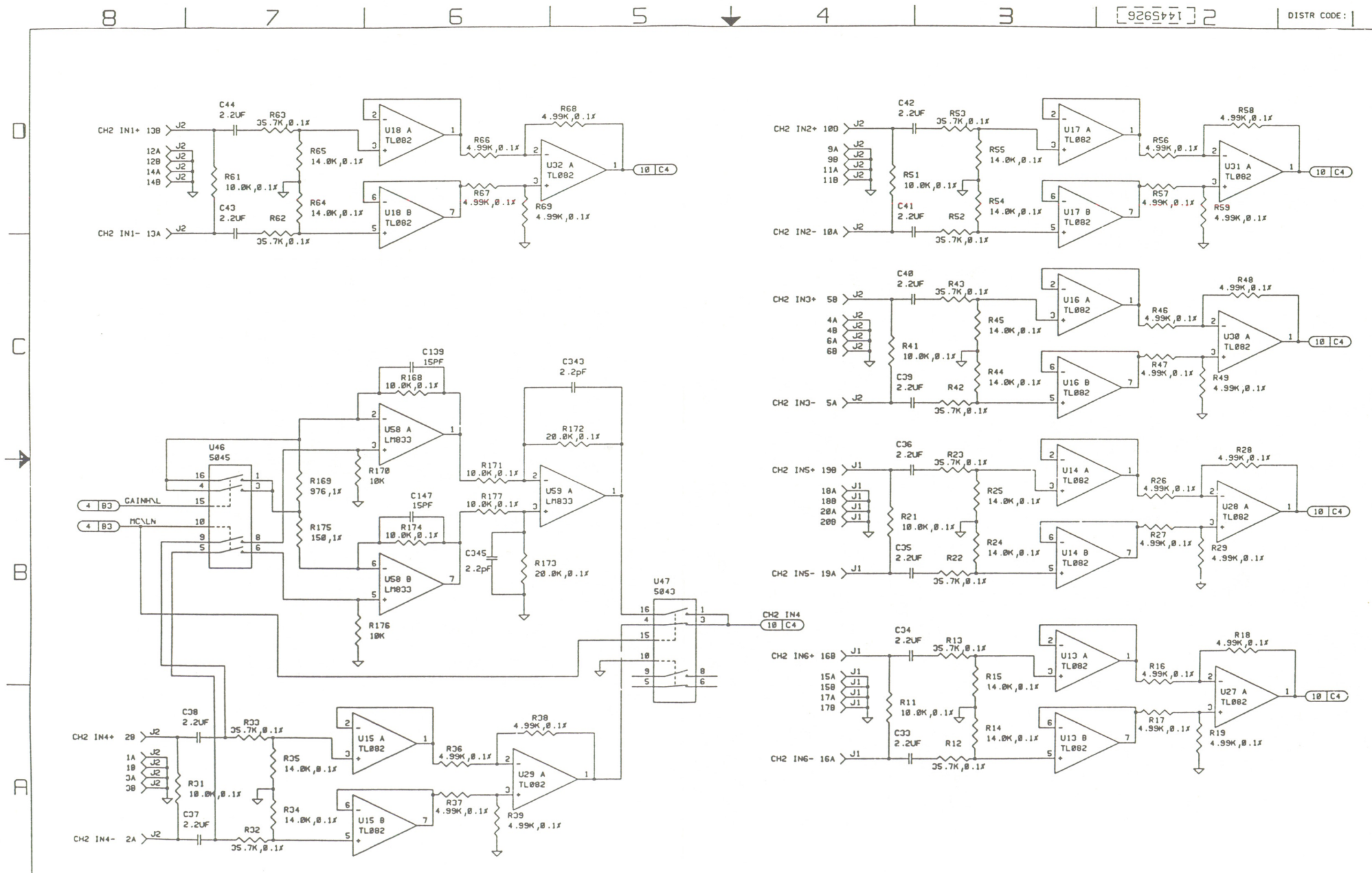


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Audio Switcher PWA  
(Sheet 7 of 15)



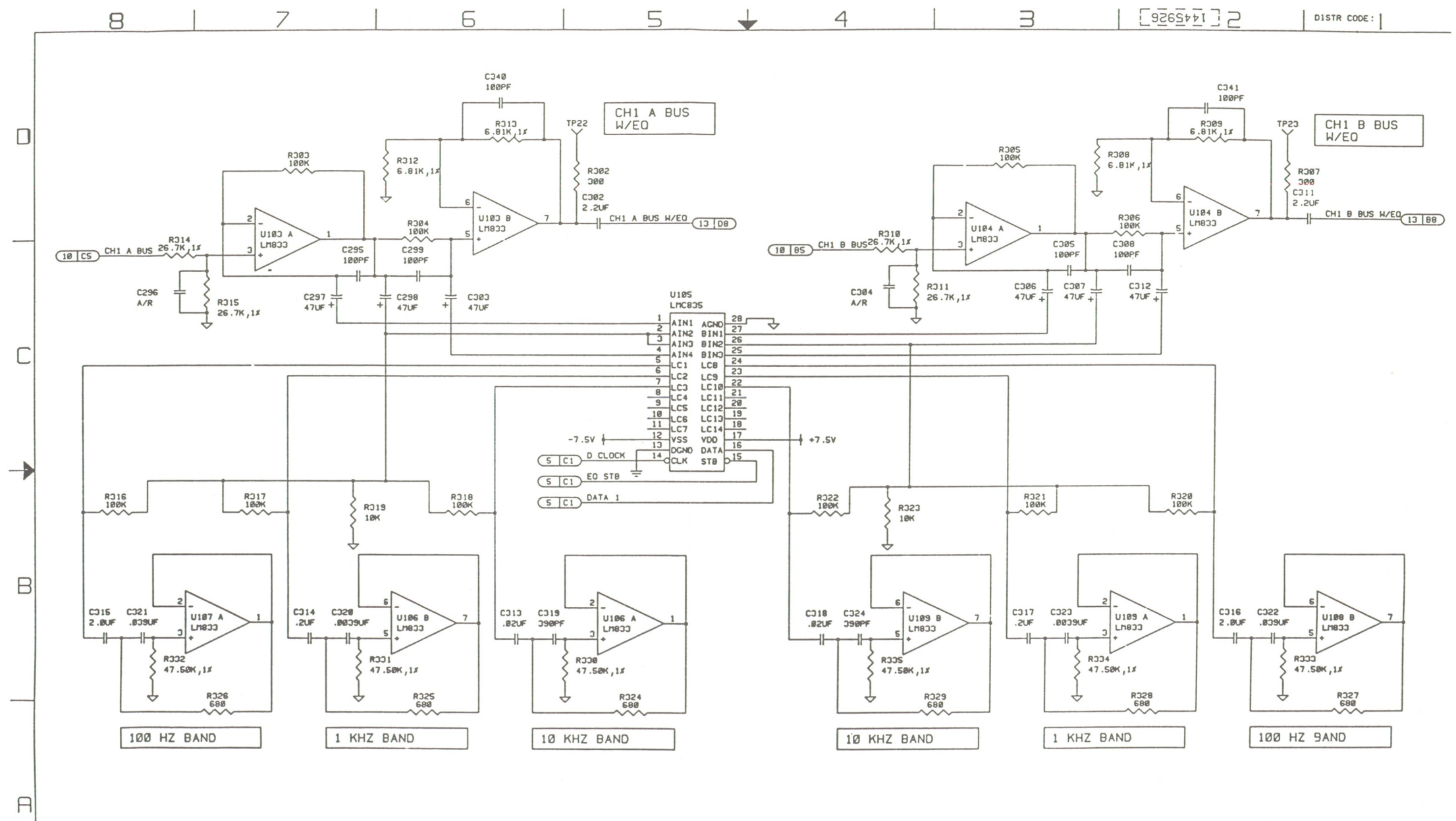






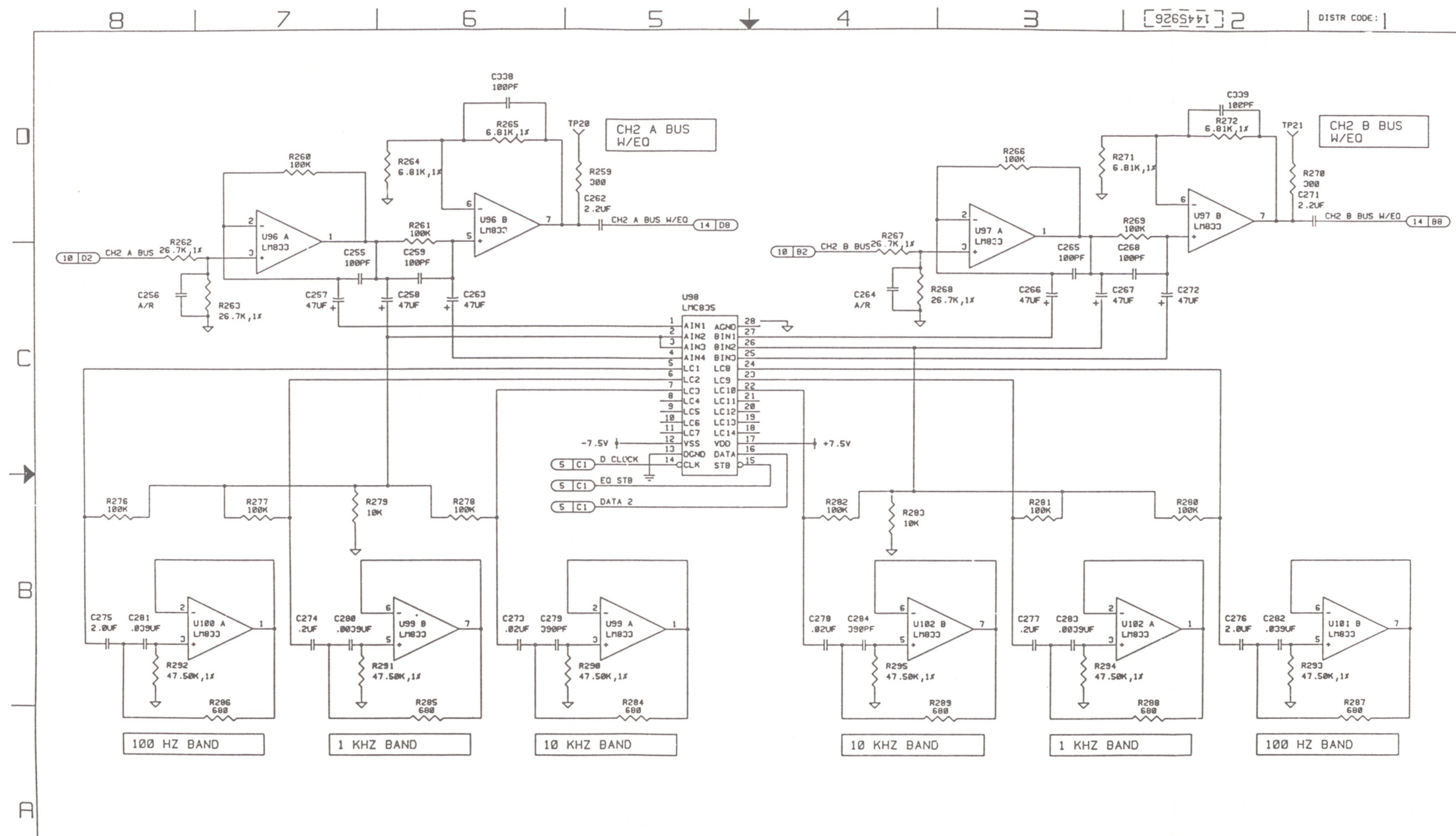
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Audio Switcher PWA  
(Sheet 9 of 15)





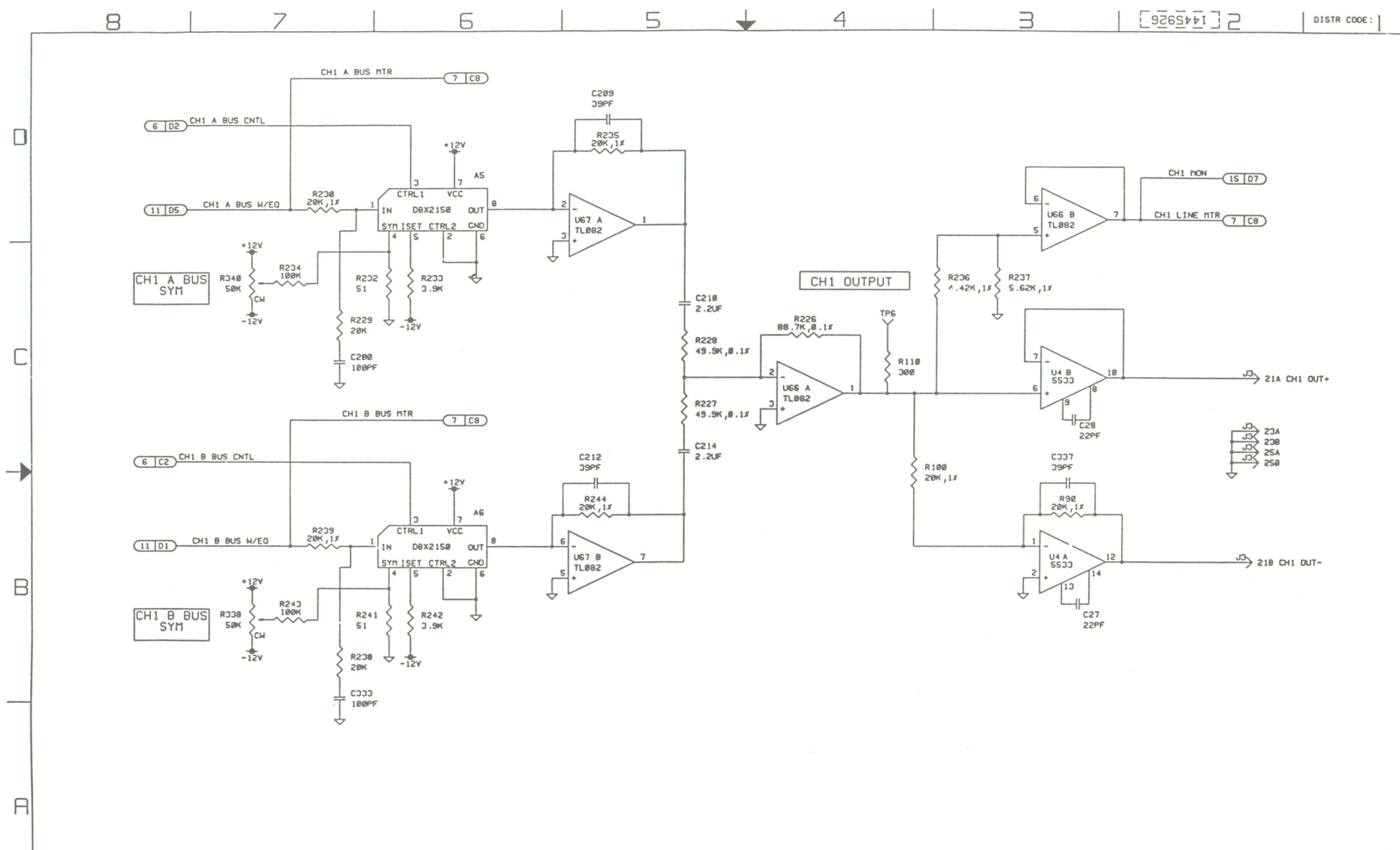
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Audio Switcher PWA  
(Sheet 11 of 15)



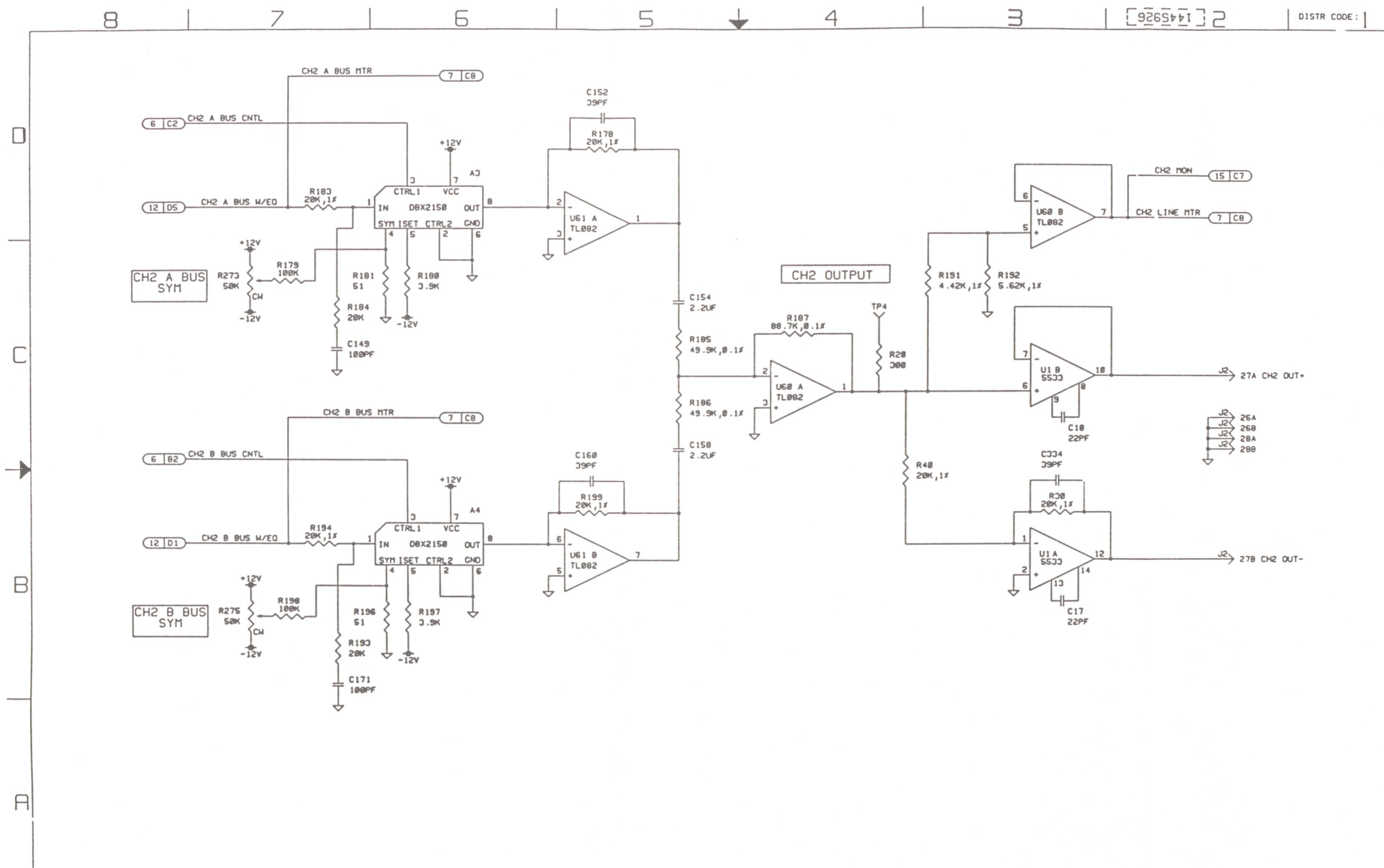


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Audio Switcher PWA  
(Sheet 12 of 15)

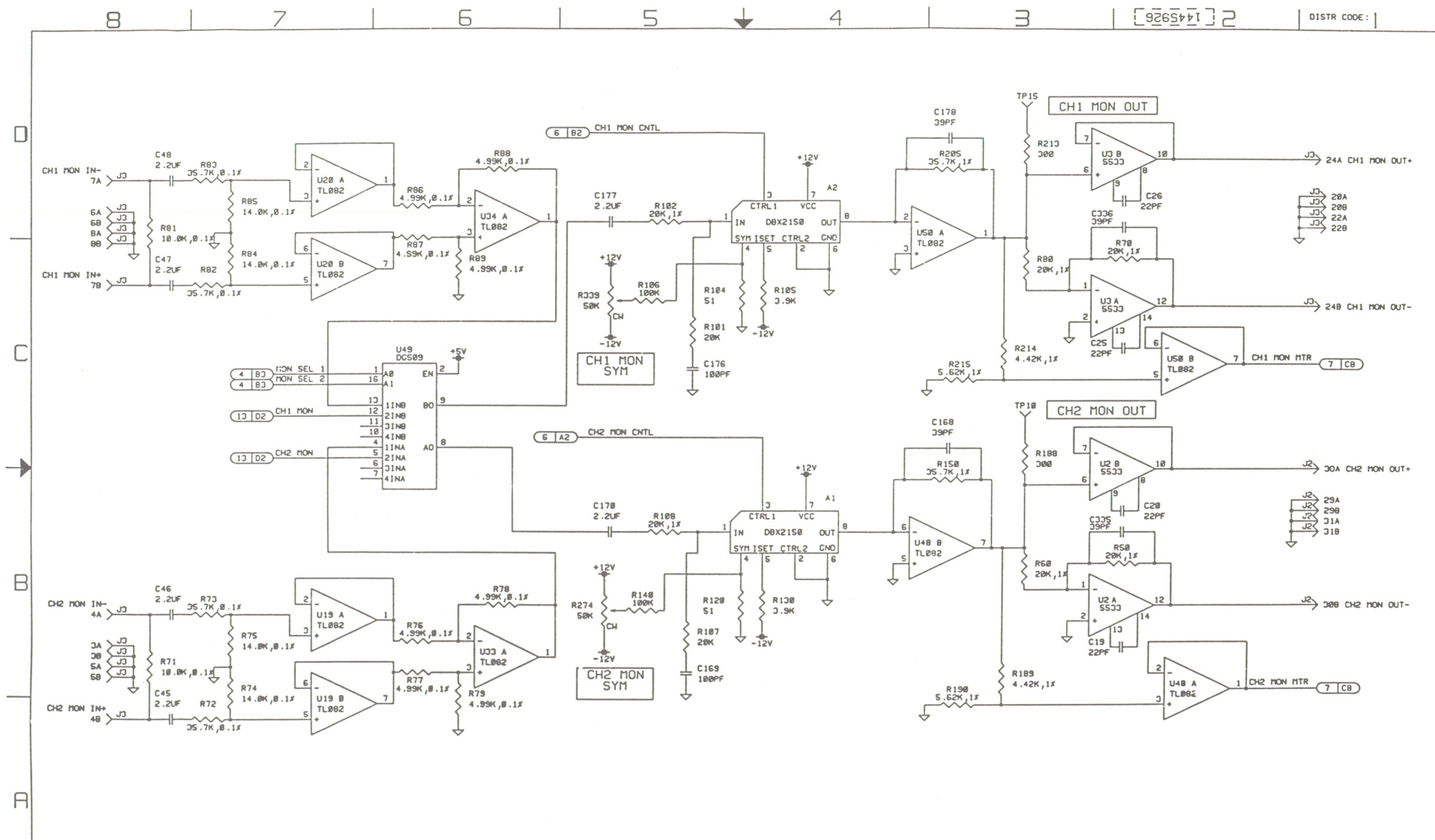




Schematic No. 1445926-02B.  
Audio Switcher PWA  
(Sheet 13 of 15)



Schematic No. 1445926-02B.  
Audio Switcher PWA  
(Sheet 14 of 15)



Schematic No. 1445926-02B.  
 Audio Switcher PWA  
 (Sheet 15 of 15)

REV. D  
REV. D

[illegible]

LM-1450588



REV. E  
REV. E[illegible]

LM-1431588



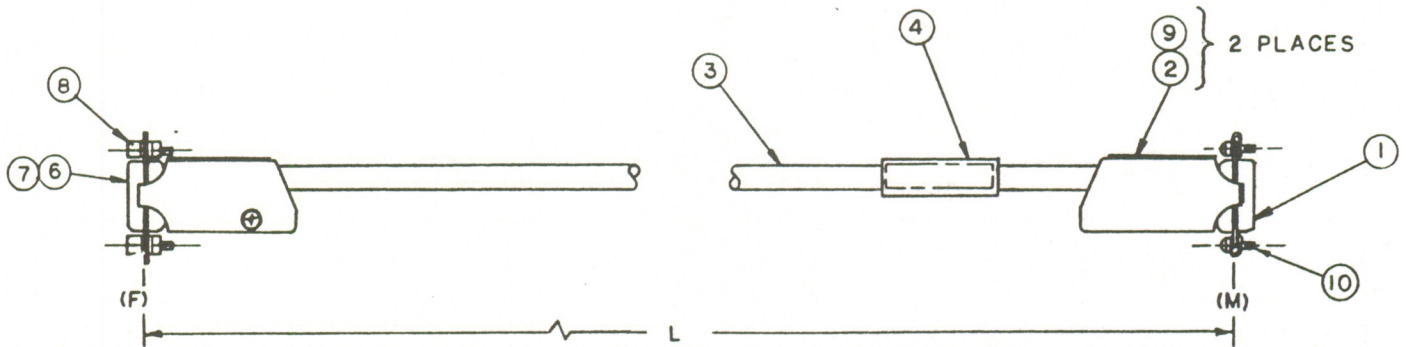
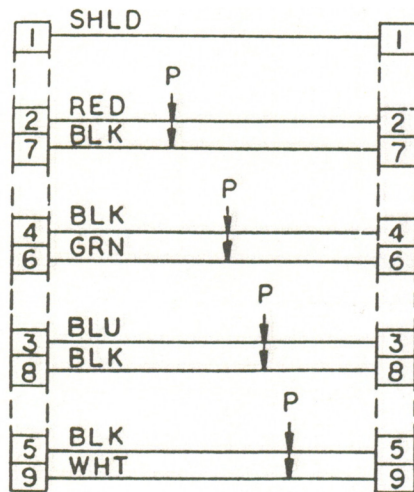
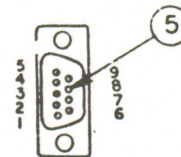


TABLE	
VERSION	L ± 5 CM
- AA	5 MTR
- AB	10 MTR
- AC	20 MTR
- AD	30 MTR



1	1	1	1	10	177-443	CONNECTOR PART, KIT MALE METRIC
AR	AR	AR	AR	9	600-587	SLEEVING; TEFLON; FLEXIBLE 20 AWG
1	1	1	1	8	177-442	CONNECTOR PART, KIT FEMALE METRIC
1	1	1	1	7	167-835	CONNECTOR, BODY, 9 POS, FEMALE
9	9	9	9	6	167-479	CONNECTOR PART, SOCKET
9	9	9	9	5	167-477	CONNECTOR PART; CONTACT PIN
AR	AR	AR	AR	4	600-257	SLEEVING, SHRINKABLE, PLASTIC, .500 O.D.
AR	AR	AR	AR	3	636-035	CABLE
2	2	2	2	2	177-072	CLAMP, ASSEMBLY KIT
1	1	1	1	1	167-845	CONNECTOR
AD	AC	AB	AA	ITEM NO.	PART NUMBER	DESCRIPTION

Assembly No. 1430925-AA thru AD A. Monitor Extension Cable

[illegible]









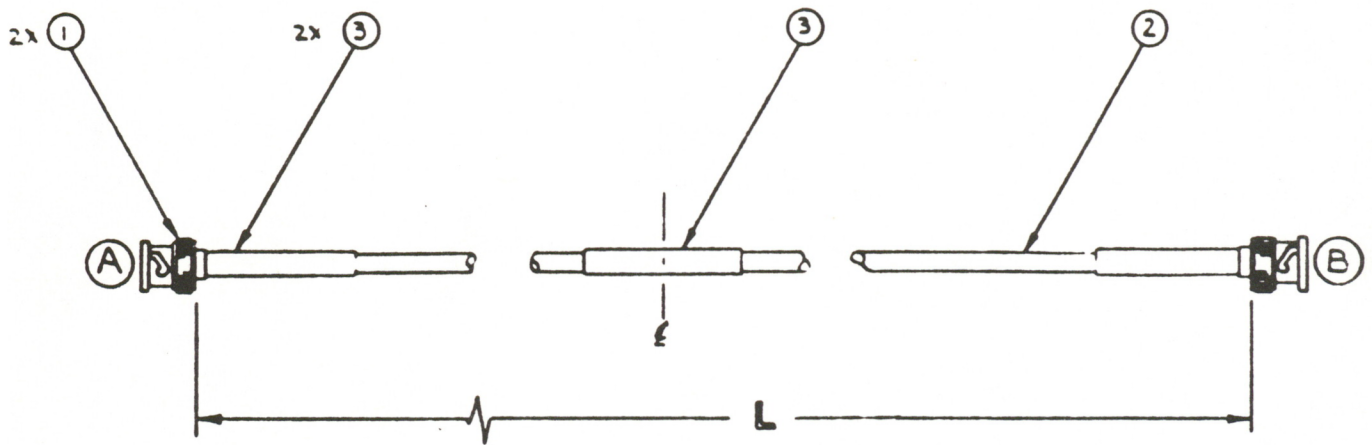
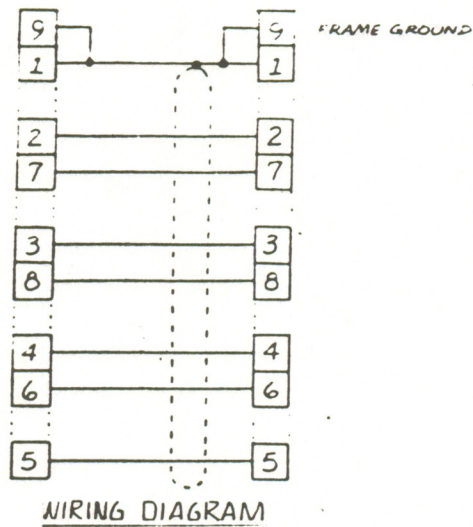


TABLE	
VERSION	$L \pm 5\text{CM}$
-AA	5 MTR
-AB	10 MTR
-AC	20 MTR
-AD	30 MTR

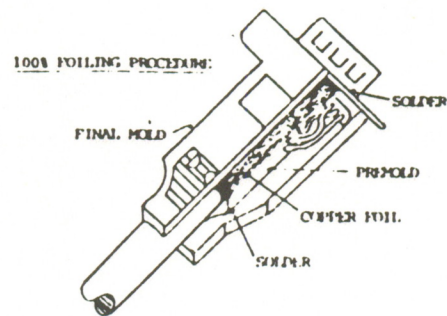
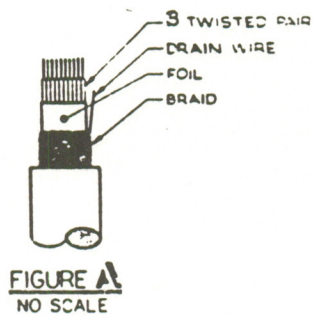
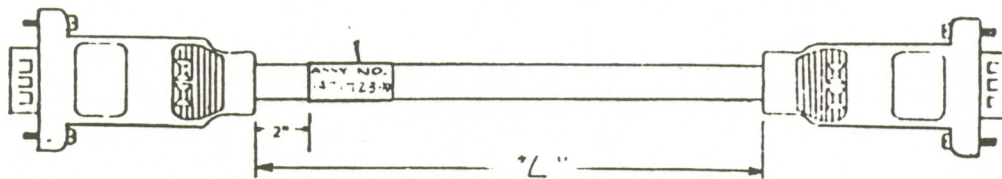
2	2	2	2	3	CD726	SLEEVING, SHRINK
2	2	2	2	2	636-197	CABLE, COAXIAL, 75 OHM, FLEXIBLE
2	2	2	2	1	145-444	CONNECTOR, PLUG, RF, COAX
AD	AC	AB	AA		PART NUMBER	DESCRIPTION

Assembly No. 1431006-AA thru AD A. Coaxial Cable





2 CONN.



VERSION	$L \pm 10\text{CM}$
-AA	5 METER
-AB	10 METER
-AC	20 METER
-AD	30 METER

Assembly No. 1431018-AA thru AD A, Serial Control Cable

WIRE-LIST	
MALE	FEMALE
1-BLK--	1-BLK
2-RED--	2-RED
3-WHT--	3-WHT
CASE-SHIELD	

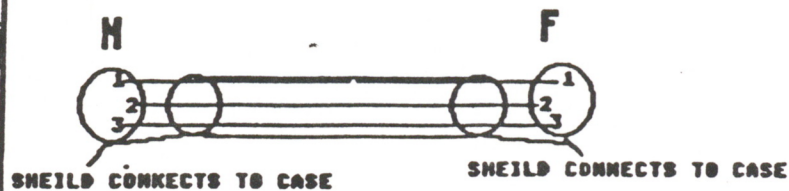


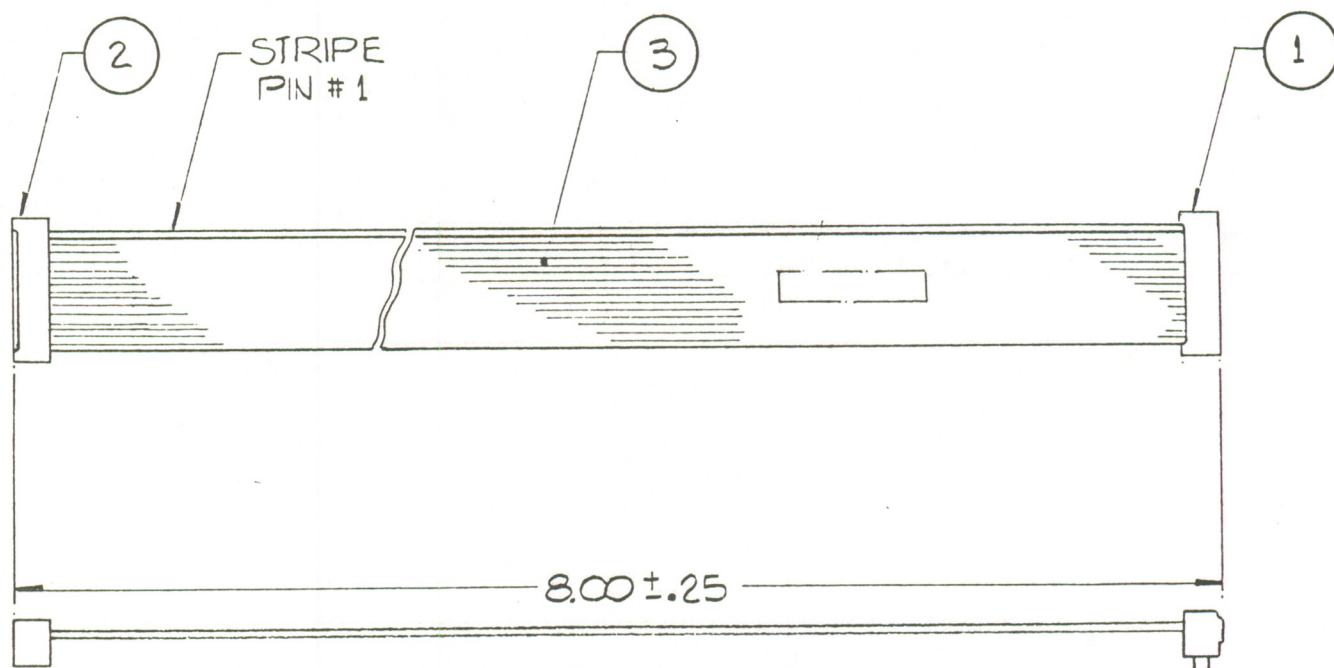
TABLE	
VERS	L ± 10CM
AA	3 meter
AB	10 meter
AC	20 meter
AD	30 meter

ITEM	PART NO.	DESCRIPTION	REF.	QUAN.
1	144-003	CONNECTOR, XLR TYPE, FEMALE 3 POS.		1
2	145-009	CONNECTOR, XLR TYPE, MALE 3 POS.		1
3	616-714	CABLE 3 cond. plus shield 22 AWG		AR
4	202-065	LABEL		AR
5				
6				
7				

Assembly No. 1431019-AA-AB A. XLR Audio Cable



### SCHEMATIC



AR	4	202-065	LABEL
AR	3	636-318	CABLE RIBBON, 16COND, 28AWG
1	2	141-847	CONNECTOR, SIGNAL CKT, FLAT, 16CONT
1	1	141-162	CONNECTOR, FLAT CABLE, 16SPRING CONTACT
01	ITEM NO.	PART NUMBER	DESCRIPTION

Assembly No. 1431727-01- Dumpster-Video Timing Cable

## **APPENDIX A**

### **CONDOR INC.**

#### **VENDOR PART NO. SDM2005E**

#### **TABLE OF CONTENTS**

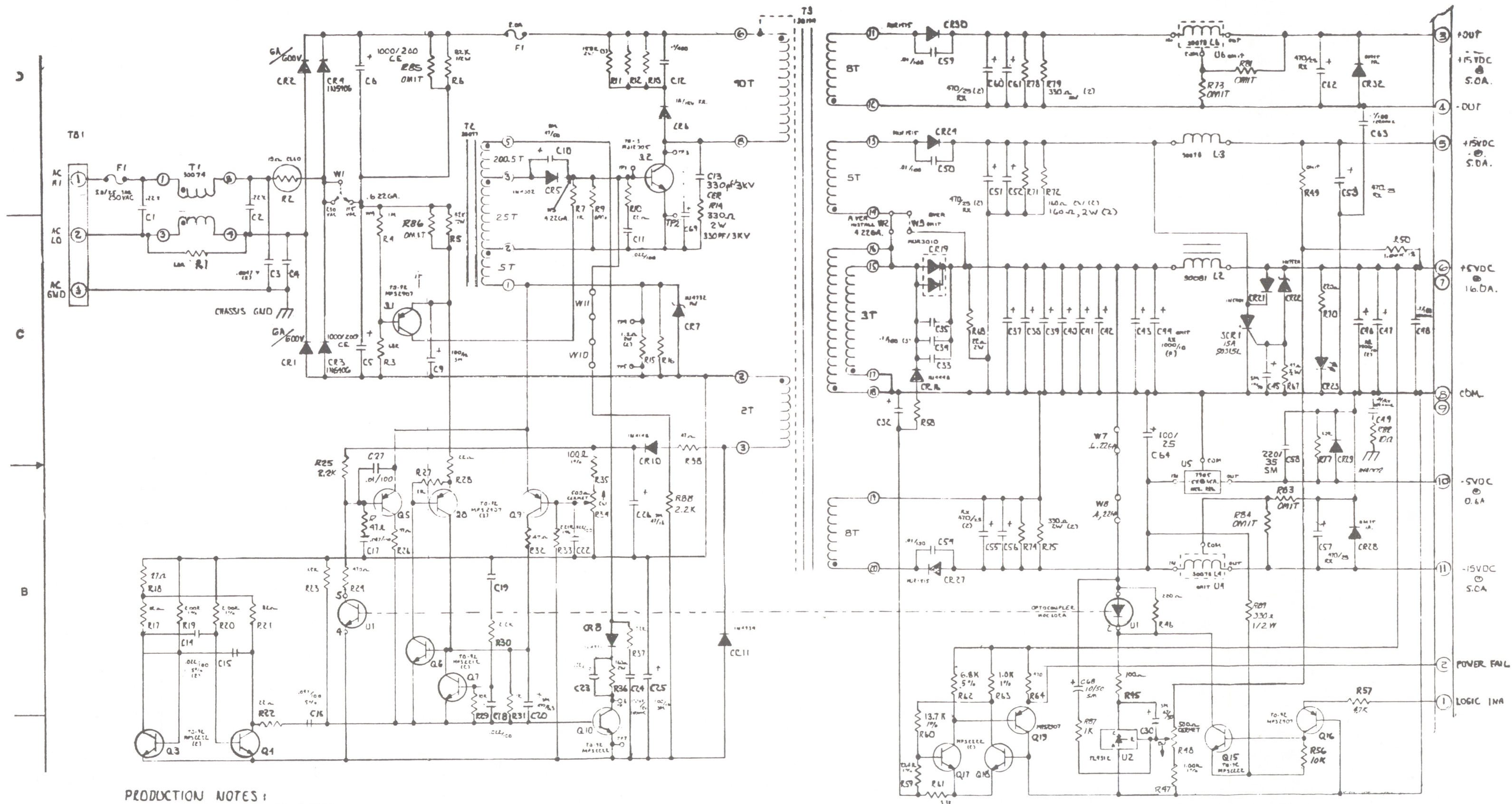
<b>TITLE/MODEL NO.</b>	<b>DOC/SCHEMATIC NO.</b>	<b>REV.</b>	<b>PAGE NO.</b>
Power Supply	SDM200E	F	A-1
Power Supply PCB	04-SDM200E	M	A-2
Schematic	31-SDM200E	G	A-5



....ASSEMBLY.....		.....COMPONENT.....					
NUMBER	DESCR.	REC	NUMBER	DESCRIPTION	BIN	QUANTITY	REFERENCE DESIGNATOR
SDM200E	SDM200E SWITCHER		F 3061				
	00010	04-SDM200E		PCB ASSY,SDM200E		1.000	FN1
	00020	05-30074-0001		XFMR,EMI INPUT,200W		1.000	T1
	00030	05-30077-0001		XFMR-DRIVE		1.000	T2
	00040	05-30837-0001		XFMR,SDM200E		1.000	T3
	00050	08-30370-0001		HEAT SINK,PLATED,INPUT,200		1.000	FN2
	00060	08-30371-0001		HEAT SINK,OUTPUT,200		1.000	FN3
	00065	08-30371-0002		HEAT SINK BRACKET,OUTPUT,200		1.000	FN6
	00070	10-30124-0002		CAP.,AL.,1000/200V,RADIAL,CE		2.000	C5,6
	00080	11-30177-0001		XSTR,SWITCHING,MJ12005,TESTED		1.000	Q2
	00090	12-30168-0003		RECT,UF RCVY,MUR3010		1.000	CR19
	00100	12-30167-0003		RECT,UF RCVY,MUR1510,TO-220		3.000	CR24,27,30
	00110	13-30197-0005		VOLT REG,NEG,MC7905CT,TO-220		1.000	U5
	00120	14-30198-0003		THYRISTOR,SCR,MCR69-2,TO-220		1.000	SCR1
	00130	19-30265-0218		SPRINGCLIP,MOUNTING,TO-218		1.000	FN7
	00135	19-30269-0303		INSULATOR,NYLON,TO-3,OVRESIZED		1.000	FN14
	00150	19-30266-0218		INSULATOR,MICA,TO-218,NO-HOLE		1.000	FN4
	00160	19-30267-0221		INSULATOR,MICA,TO-220		5.000	FN8
	00170	19-30268-0303		INSULATOR,MICA,TO-3,OVERSIZED		1.000	FN5
	00175	19-30304-0040		WASHER,SHOULDER,#6x.040,NYLON		5.000	FN10
	00180	19-30286-0312		SCREW,PNHD,6-32x.312,PHIL		9.000	FN11
	00185	19-30286-0375		SCREW,PNHD,6-32x.375,PHIL		2.000	FN16
	00190	19-30270-0632		NUT,ASSEM LK WASH.,6-32,SM PAT		7.000	FN9
	00200	20-30260-0050		FUSE,5.0A.,3AG		1.000	F1
	00210	20-30262-0020		FUSE,2.0A,5MMx20MM		1.000	F2
	00220	30-SDM200E		LABEL,ID,FAB PER 30-30559-0001		1.000	FN12
	00230	30-30355-0001		LABEL,HIGH VOLTAGE,CAUTION		1.000	FN13
	00240	17-30342-0900		WIRE,WHITE,18 GA,UL1430,19-ST		0.750	FN15
	00260	18-30657-0006		TERM.,RING,#6,NON-INS.,22-16GA		1.000	FN18
	00270	30-30527-0001		LABEL,CAUTION,0.5 x 1.50		1.000	FN19

....ASSEMBLY.....		.....COMPONENT.....					
NUMBER	DESCR.	REC	NUMBER	DESCRIPTION	BIN	QUANTITY	REFERENCE DESIGNATOR
04-SDM200E	PCB ASSY,SDM200E		M	2887			
		00010	03-30062-0001	CKT BD W/HDW, SDM200A		1.000	
		00020	05-30078-0001	CHOKE,OUTPUT,5.0A		3.000	L3,4,6
		00030	05-30081-0001	CHOKE,OUTPUT,5A,2UH		1.000	L2
		00040	06-30358-0001	HARNESS,115V/230V,SELECT		1.000	W1
		00050	10-30179-0224	CAP.,EMI FILT.,.0.22/250V,X		2.000	C1,2
		00060	10-30180-0472	CAP.,EMI FILT.,.0047/250V,Y		2.000	C3,4
		00070	10-30120-0014	CAP.,AL.,100/16V,RADIAL,SM		2.000	C9,25
		00080	10-30120-0012	CAP.,AL.,47/50V,RADIAL,SM		1.000	C10
		00090	10-30181-0104	CAP.,POLY FILM,0.1/400V,MET		1.000	C12
		00100	10-30183-0331	CAP.,CER,DISC,330pf/3KV,+/-20%		1.000	C13
		00110	10-30178-0223	CAP.,POLY FILM,.022/100V.,IND.		5.000	C11,14,15,18,22
		00120	10-30120-0013	CAP.,AL.,47/16V,RADIAL,SM		1.000	C26
		00130	10-30178-0473	CAP.,POLY FILM,.047/100V.,IND.		2.000	C16,17
		00140	10-30120-0008	CAP.,AL.,1/50V,RADIAL,SM		2.000	C19,32
		00150	10-30120-0016	CAP.,AL.,470/6.3V,RADIAL,SM		1.000	C20
		00160	10-30178-0224	CAP.,POLY FILM,0.22/100V.,IND.		1.000	C23
		00170	10-30182-0101	CAP.,CER,DISC,100pf/1KV,+/-20%		1.000	C24
		00175	10-30120-0017	CAP.,AL.,0.47/50V,RADIAL,SM		1.000	C30
		00185	10-30122-0003	CAP.,AL.,470/25V,RADIAL,RX		9.000	C60,61,62,53,55,57,56,51,52
		00190	10-30178-0104	CAP.,POLY FILM,0.1/100V.,IND.		3.000	C33,34,35
		00200	10-30178-0103	CAP.,POLY FILM,.01/100V.,IND.		4.000	C27,50,54,59
		00210	10-30122-0001	CAP.,AL.,1000/10V,RADIAL,RX		9.000	C37,38,39,40,41,42,43,46,47
		00220	10-30120-0015	CAP.,AL.,10/50V,RADIAL,SM		2.000	C45,68
		00230	10-30184-0104	CAP.,CER,MONO,0.1/100V,+/-20%		2.000	C48,63
		00240	10-30182-0103	CAP.,CER,DISC,.01/1KV,+/-20%		1.000	C49
		00245	10-30120-0018	CAP.,AL.,220/35V,RADIAL,SM		1.000	C58
		00247	10-30123-0004	CAP.,AL.,100/25V,RADIAL,SME		1.000	C64
		00249	10-30183-0331	CAP.,CER,DISC,330pf/3KV,+/-20%		1.000	C69
		00250	11-30174-0002	XSTR,MPS2907A,PNP,TO-92,LD/FMD		6.000	Q1,5,8,9,16,19
		00260	11-30174-0001	XSTR,MPS2222A,NPN,TO-92,LD/FMD		8.000	Q3,4,6,7,10,15,17,18
		00270	12-30204-0600	RECT,STD RCVY,1N5406,3.0A		2.000	CR3,4
		00275	12-30206-0600	RECT.,STD,RCVY,MR756,6.0A.		2.000	CR1,2
		00280	12-30200-0100	RECT,STD RCVY,1N4002,1.0A		2.000	CR5,29
		00290	12-30208-1000	RECT,FST RCVY,BYV96E,1.0A		1.000	CR6
		00300	12-30220-0047	DIODE,ZENER,1N4732A,1.0W		1.000	CR7
		00310	12-30222-0001	DIODE,SM SGL,1N4448		2.000	CR10,16
		00320	12-30208-0100	RECT,FST RCVY,1N4934,1.0A		2.000	CR8,11
		00330	12-30204-0100	RECT,STD RCVY,1N5401,3.0A		1.000	CR21
		00340	12-30218-0056	DIODE,ZENER,1N752A,500mW		1.000	CR22
		00350	12-30194-0001	DIODE,LIGHT EMITTING,RED		1.000	CR23
		00360	13-30192-0001	I.C.,REF,TL431CLP,TO-92		1.000	U2
		00370	15-30193-0001	OPTO-COUPLER,SOC627A,6P DIP		1.000	U1
		00380	16-30132-0682	RES.,C.F.,6.8K,1/4W,+/-5%		1.000	R1
		00390	16-30132-0105	RES.,C.F.,1.0M,1/4W,+/-5%		1.000	R4
		00400	16-30132-0683	RES.,C.F.,68K,1/4W,+/-5%		1.000	R3
		00410	16-30132-0102	RES.,C.F.,1.0K,1/4W,+/-5%		5.000	R7,27,31,77,87
		00415	16-30138-1001	RES.,M.F.,1.00K,1/4W,+/-1%		1.000	R63
		00420	16-30132-0471	RES.,C.F.,470 OHM,1/4W,+/-5%		2.000	R24,64
		00430	16-30132-0470	RES.,C.F.,47 OHM,1/4W,+/-5%		5.000	R26,32,38,39,58
		00440	16-30132-0220	RES.,C.F.,22 OHM,1/4W,+/-5%		3.000	R10,22,28
		00450	16-30132-0222	RES.,C.F.,2.2K,1/4W,+/-5%		4.000	R25,30,37,88
		00460	16-30132-0152	RES.,C.F.,1.5K,1/4W,+/-5%		1.000	R23

....ASSEMBLY.....		.....COMPONENT.....					
NUMBER	DESCR.	REC	NUMBER	DESCRIPTION	BIN	QUANTITY	REFERENCE DESIGNATOR
04-SDM200E	PCB ASSY,SDM200E		M	2887			
		00470	16-30132-0270	RES.,C.F.,27 OHM,1/4W,+/-5%		1.000	R18
		00480	16-30132-0820	RES.,C.F.,82 OHM,1/4W,+/-5%		2.000	R17,21
		00490	16-30132-0103	RES.,C.F.,10K,1/4W,+/-5%		2.000	R29,56
		00500	16-30132-0221	RES.,C.F.,220 OHM,1/4W,+/-5%		2.000	R46,70
		00510	16-30132-0472	RES.,C.F.,4.7K,1/4W,+/-5%		1.000	R57
		00515	16-30132-0682	RES.,C.F.,6.8K,1/4W,+/-5%		1.000	R62
		00520	16-30132-0101	RES.,C.F.,100 OHM,1/4W,+/-5%		1.000	R45
		00523	16-30132-0681	RES.,C.F.,680 OHM,1/4W,+/-5%		1.000	R9
		00524	16-30134-0331	RES.,C.F.,330 OHM,1/2W,+/-5%		1.000	R89
		00525	16-30132-0100	RES.,C.F.,10 OHM,1/4W,+/-5%		1.000	R82
		00530	16-30132-0332	RES.,C.F.,3.3K,1/4W,+/-5%		1.000	R61
		00550	16-31481-0823	RES.,CARBON COMP,82K,1/2W,5%		2.000	R5,6
		00555	16-30134-0470	RES.,C.F.,47 OHM,1/2W,+/-5%		1.000	R67
		00557	16-30144-0501	RES,VAR,C.F.,500 OHM,1/4W,HORZ		1.000	R34
		00560	16-30138-1000	RES.,M.F.,100 OHM,1/4W,+/-1%		1.000	R35
		00570	16-30138-2211	RES.,M.F.,2.21K,1/4W,+/-1%		1.000	R33
		00580	16-30138-2001	RES.,M.F.,2.00K,1/4W,+/-1%		2.000	R19,20
		00590	16-30138-1001	RES.,M.F.,1.00K,1/4W,+/-1%		2.000	R47,50
		00600	16-30138-1372	RES.,M.F.,13.7K,1/4W,+/-1%		1.000	R60
		00610	16-30138-2742	RES.,M.F.,27.4K,1/4W,+/-1%		1.000	R59
		00620	16-30140-0154	RES.,M. OXD.,150K,2W,+/-5%		3.000	R11,12,13
		00630	16-30140-0331	RES.,M.O.,330 OHM,2W,+/-5%		1.000	R14
		00640	16-30140-0129	RES.,M. OXD.,1.2 OHM,2W,+/-5%		2.000	R15,16
		00645	16-30140-0331	RES.,M.O.,330 OHM,2W,+/-5%		4.000	R74,75,78,79
		00650	16-30140-0161	RES.,M. OXD.,160 OHM,2W,+/-5%		3.000	R36,71,72
		00660	16-30140-0220	RES.,M. OXD.,22 OHM,2W,+/-5%		1.000	R68
		00670	16-30882-0501	RES.,VAR,CERMET,500 OHM,1/4W		1.000	R48
		00680	16-30185-0002	THRMSTR,10 OHM/5A,SURGE LMTG		1.000	R2
		00685	17-30306-0120	WIRE,JUMPER,1.2 IN.,22 GA.		1.000	W10
		00690	17-30965-0040	WIRE,BARE TND COPPER,0.4",22GA		1.000	W11
		00700	18-30199-0003	TERM BLK,PCB,3 POS,.375 CTR		1.000	TB1
		00710	18-30199-0011	TERM BLK,PCB,11 POS,.375 CTR		1.000	TB2
		00720	19-30250-0001	FUSECLIP,PCB,44FH053,.250 FUSE		2.000	FOR F1
		00730	19-30251-0001	FUSECLIP,PCB,44FH052,5MM FUSE		2.000	FOR F2
		00740	17-30965-0040	WIRE,BARE TND COPPER,0.4",22GA		3.000	W2,5,8
		00750	17-30965-0060	WIRE,BARE TND COPPER,0.6",22GA		2.000	W4,7



PRODUCTION NOTES:  
 1) RESISTORS 1/4W, 5%, C.F., EXCEPT WHERE SPECIFIED OTHERWISE.  
 2) CAPACITOR VALUES ARE IN MICROFARADS/VOLTS UNLESS OTHERWISE SPECIFIED.

4) OUTPUT HEATSINK IS USED FOR CONDUCTING COMMON

Schematic No. 31-SDM200E  
 Switching Power Supply  
 (Condor Inc.)



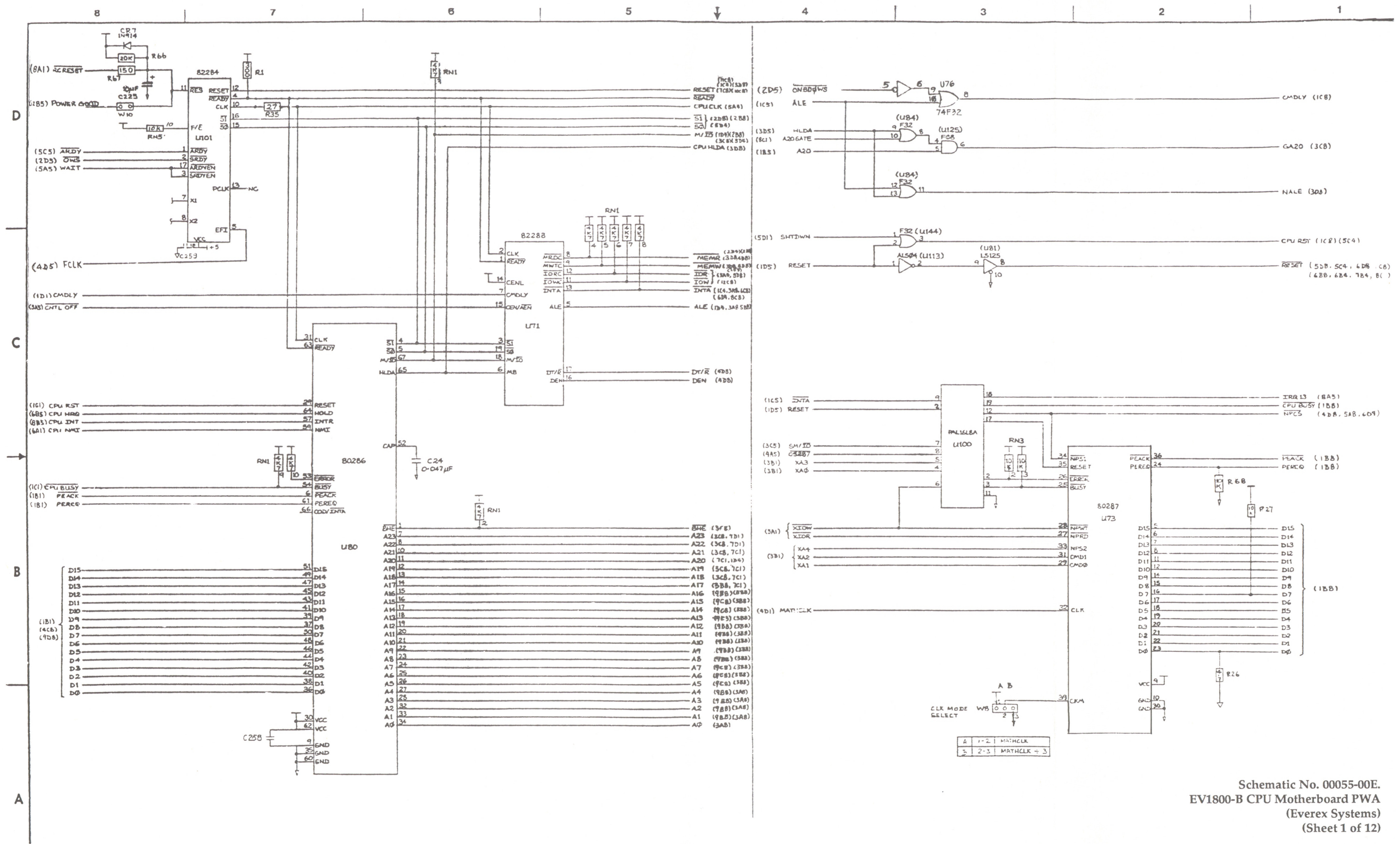
## **APPENDIX B**

### **EVEREX SYSTEMS**

#### **VENDOR PART NO. EV1800-B**

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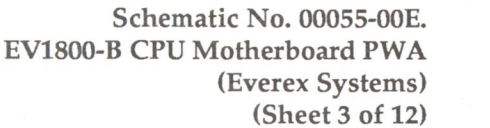
<b>TITLE/MODEL NO.</b>	<b>SCHEMATIC NO.</b>	<b>REV.</b>	<b>PAGE NO.</b>
Motherboard PWA	00055-00	E	B-1



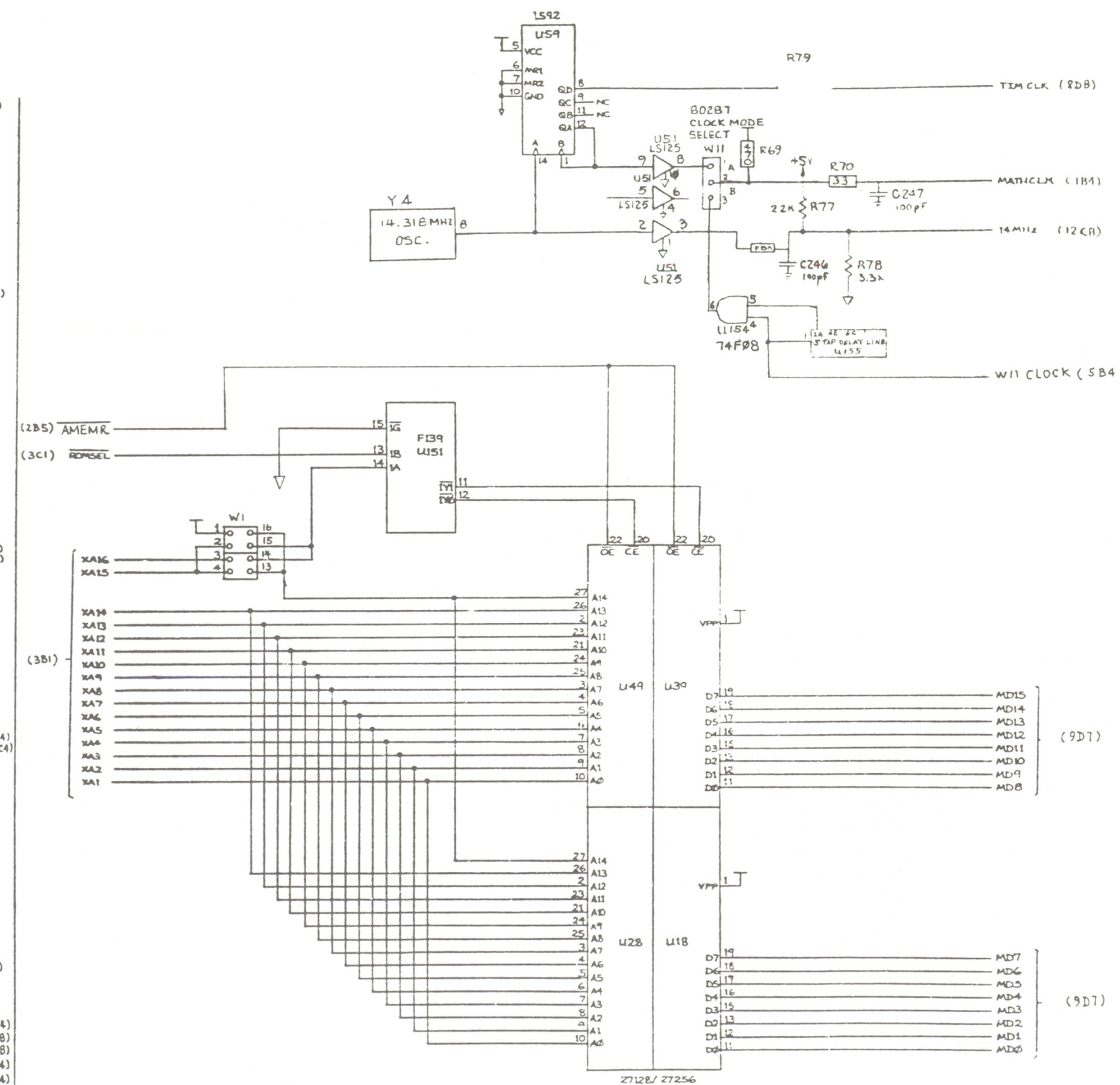
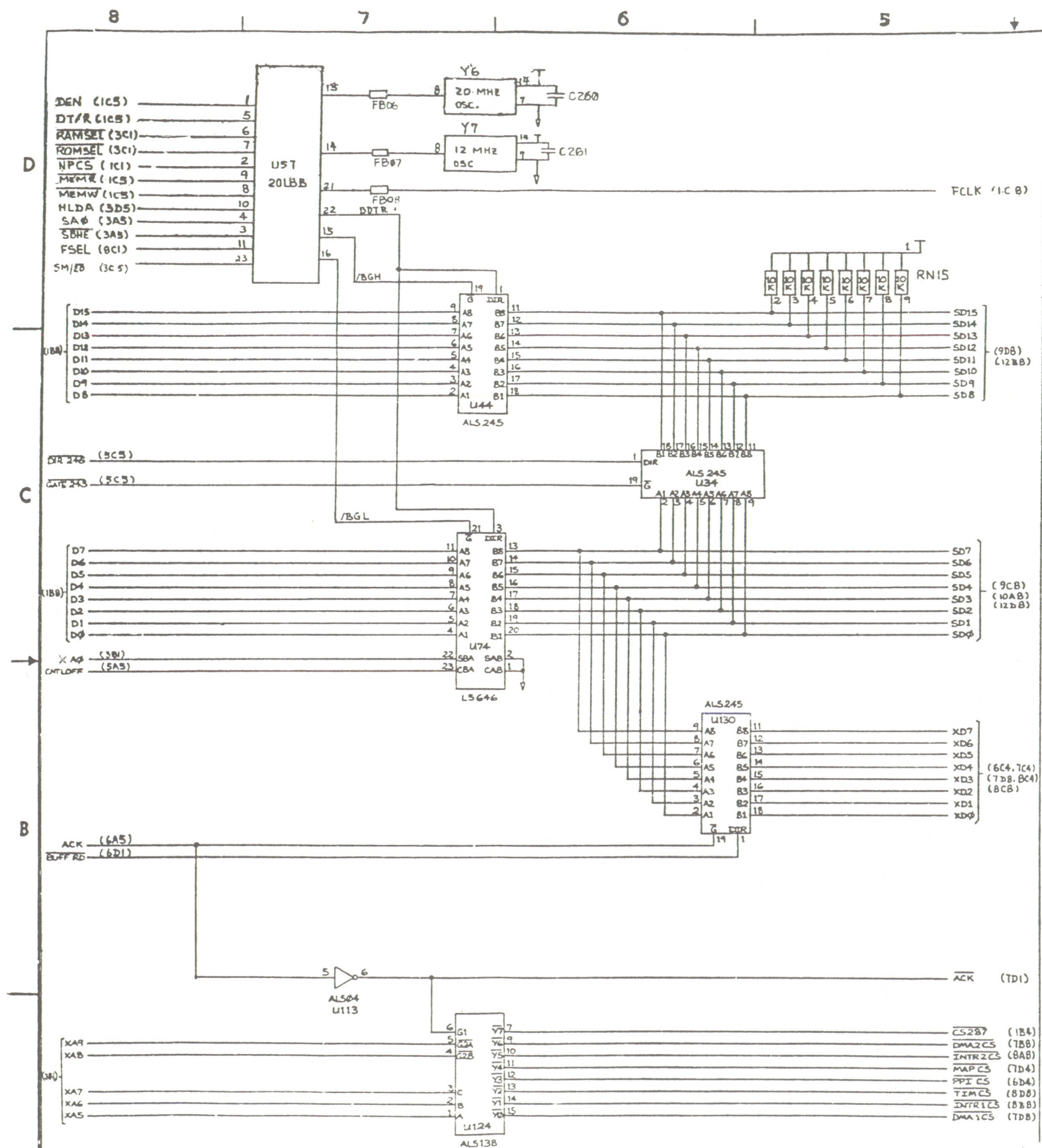
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 EV1800-B CPU Motherboard PWA  
 (Everex Systems)  
 (Sheet 1 of 12)





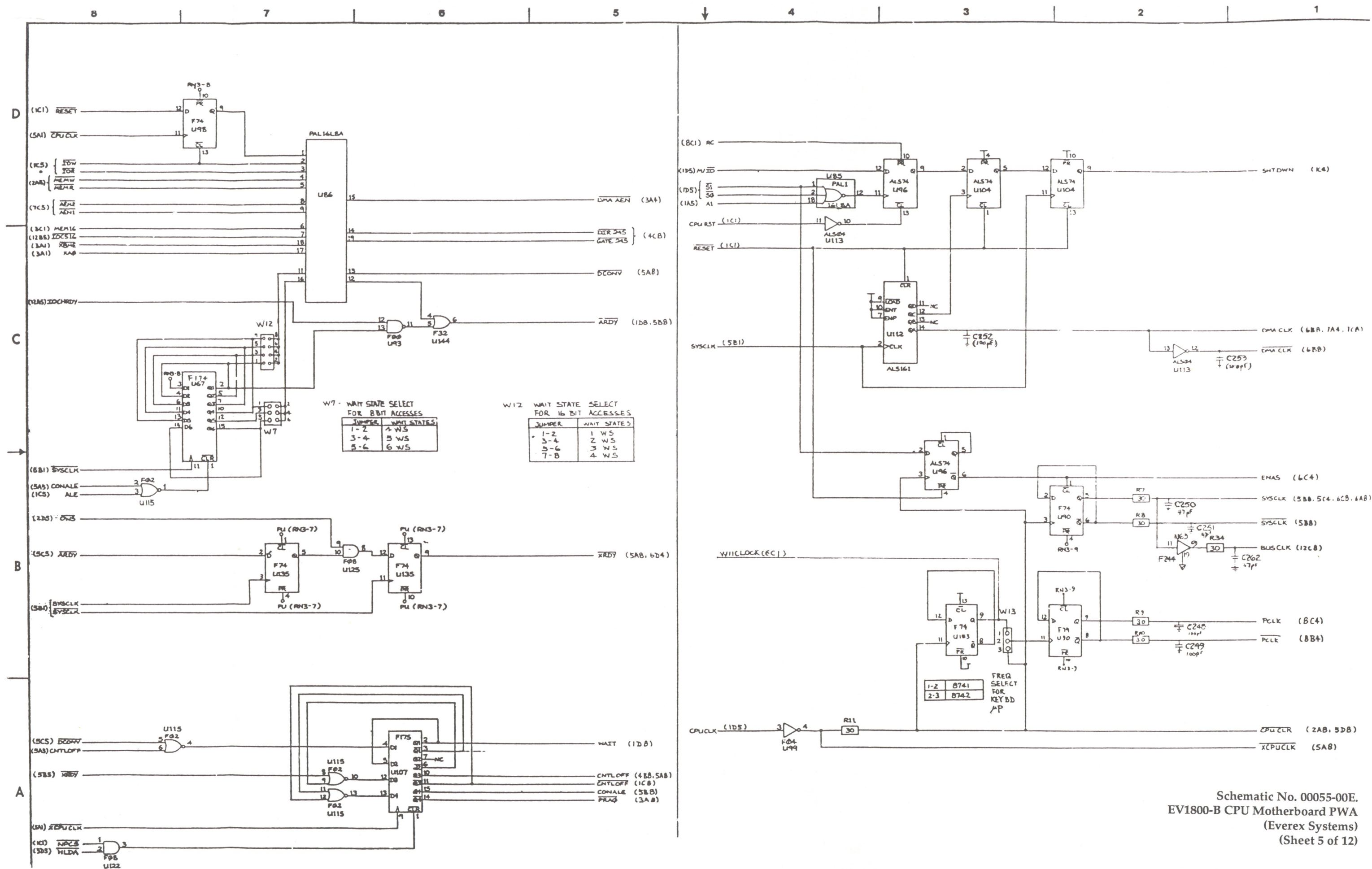






Schematic No. 00055-00E.  
EV1800-B CPU Motherboard PWA  
(Everex Systems)  
(Sheet 4 of 12)





Schematic No. 00055-00E.  
EV1800-B CPU Motherboard PWA  
(Everex Systems)  
(Sheet 5 of 12)





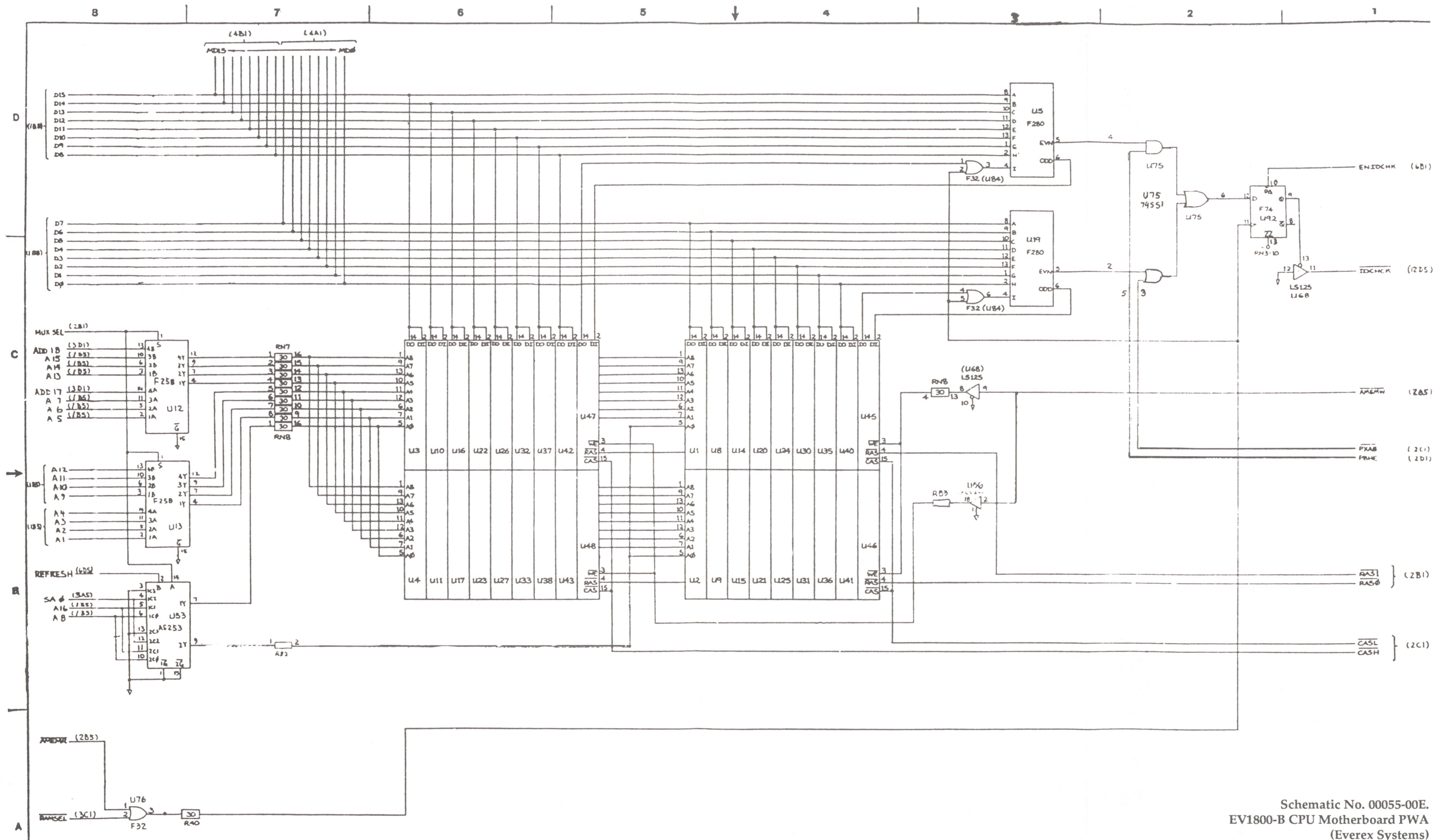






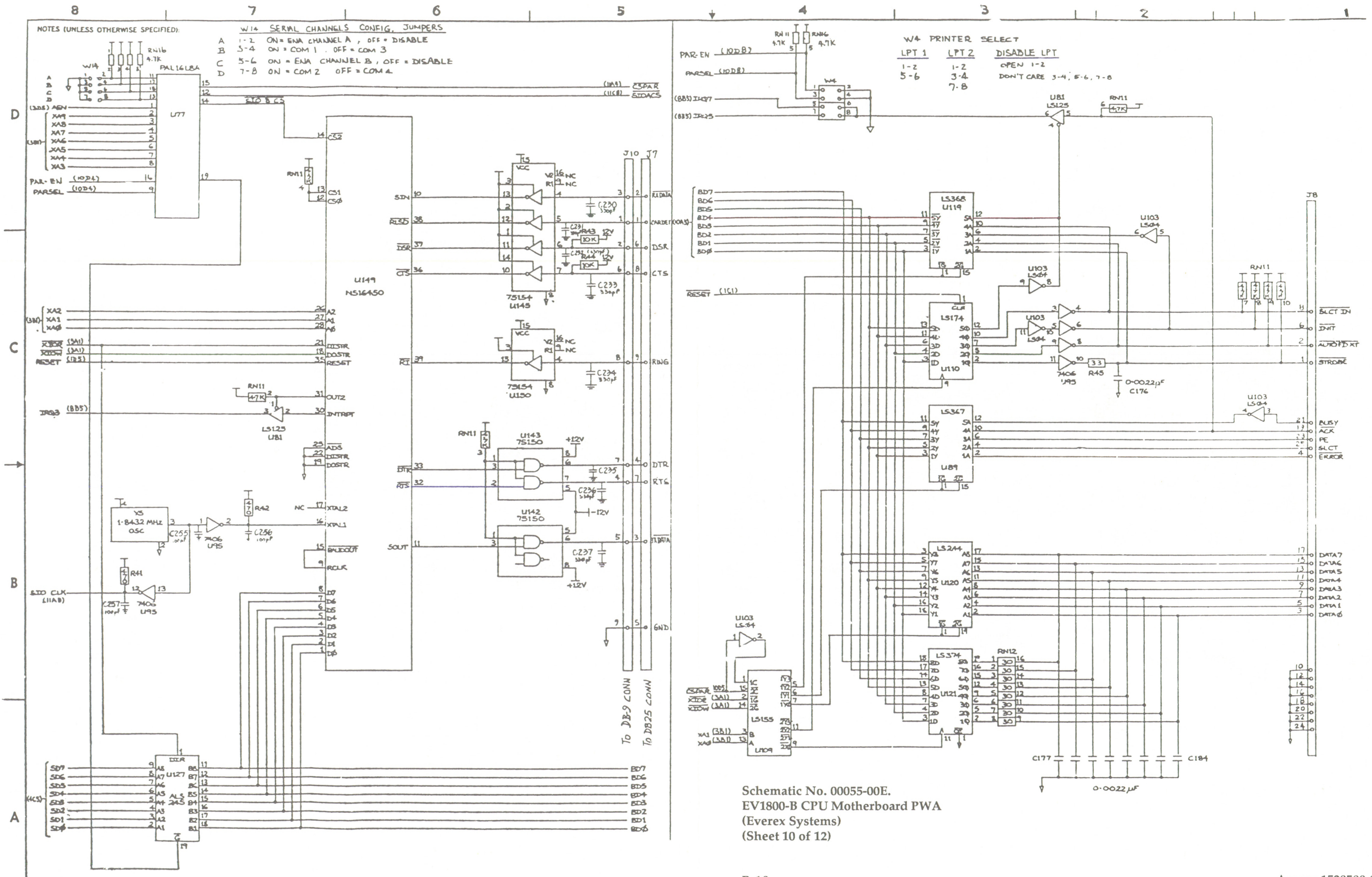


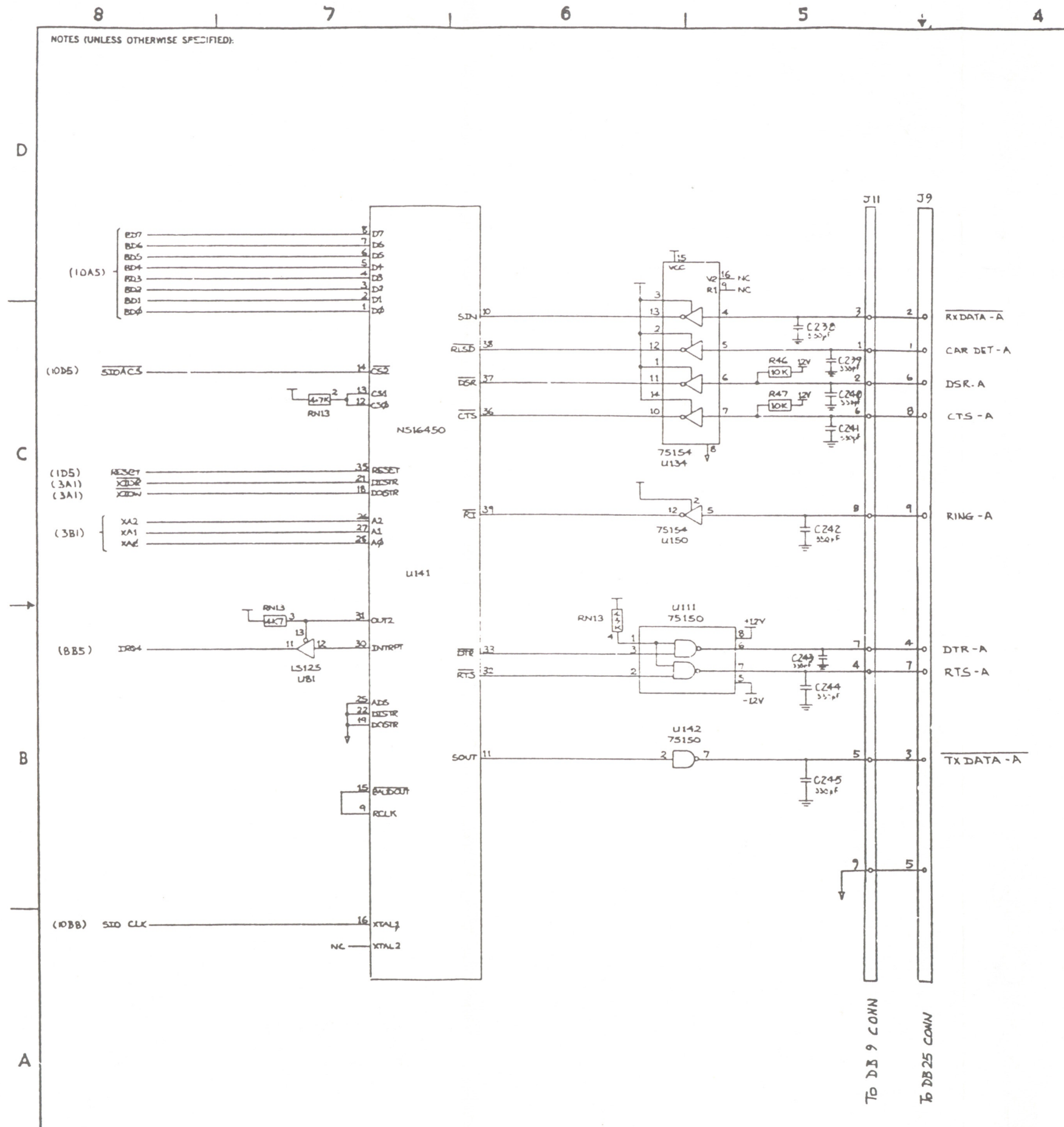




Schematic No. 00055-00E.  
EV1800-B CPU Motherboard PWA  
(Everex Systems)  
(Sheet 9 of 12)







Schematic No. 00055-00E.  
EV1800-B CPU Motherboard PWA  
(Everex Systems)  
(Sheet 11 of 12)





## **APPENDIX C**

**KEY TRONICS CORP.**

**VENDOR PART NO. E035003051**

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## **APPENDIX D**

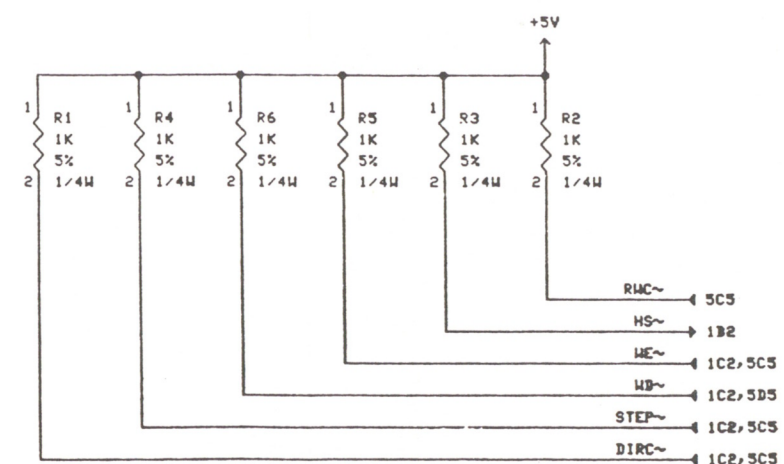
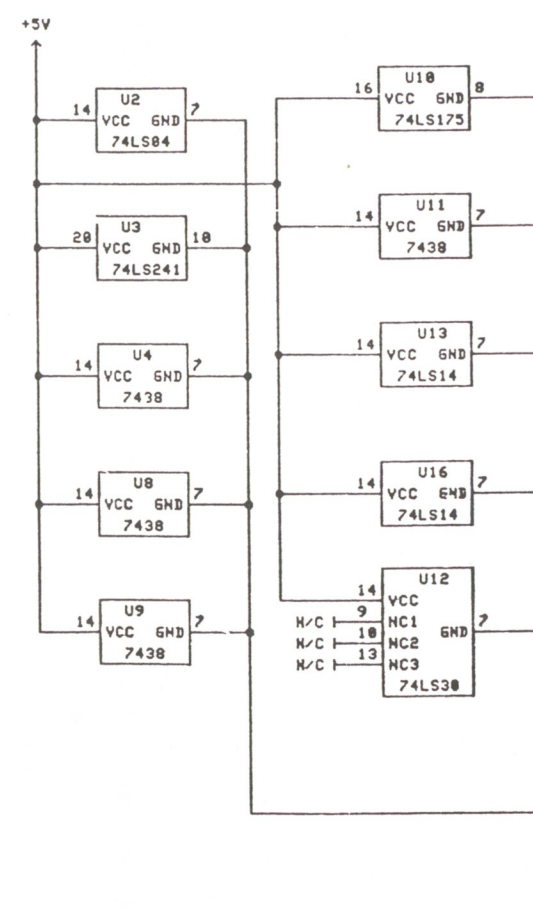
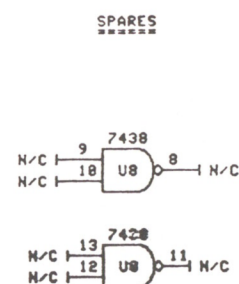
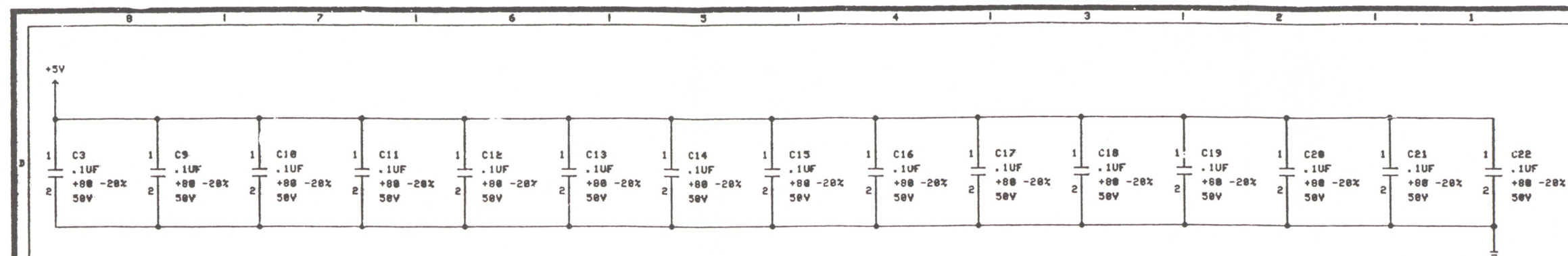
**WESTERN DIGITAL CORP.**

**VENDOR PART NO. WD1002A-FOX**

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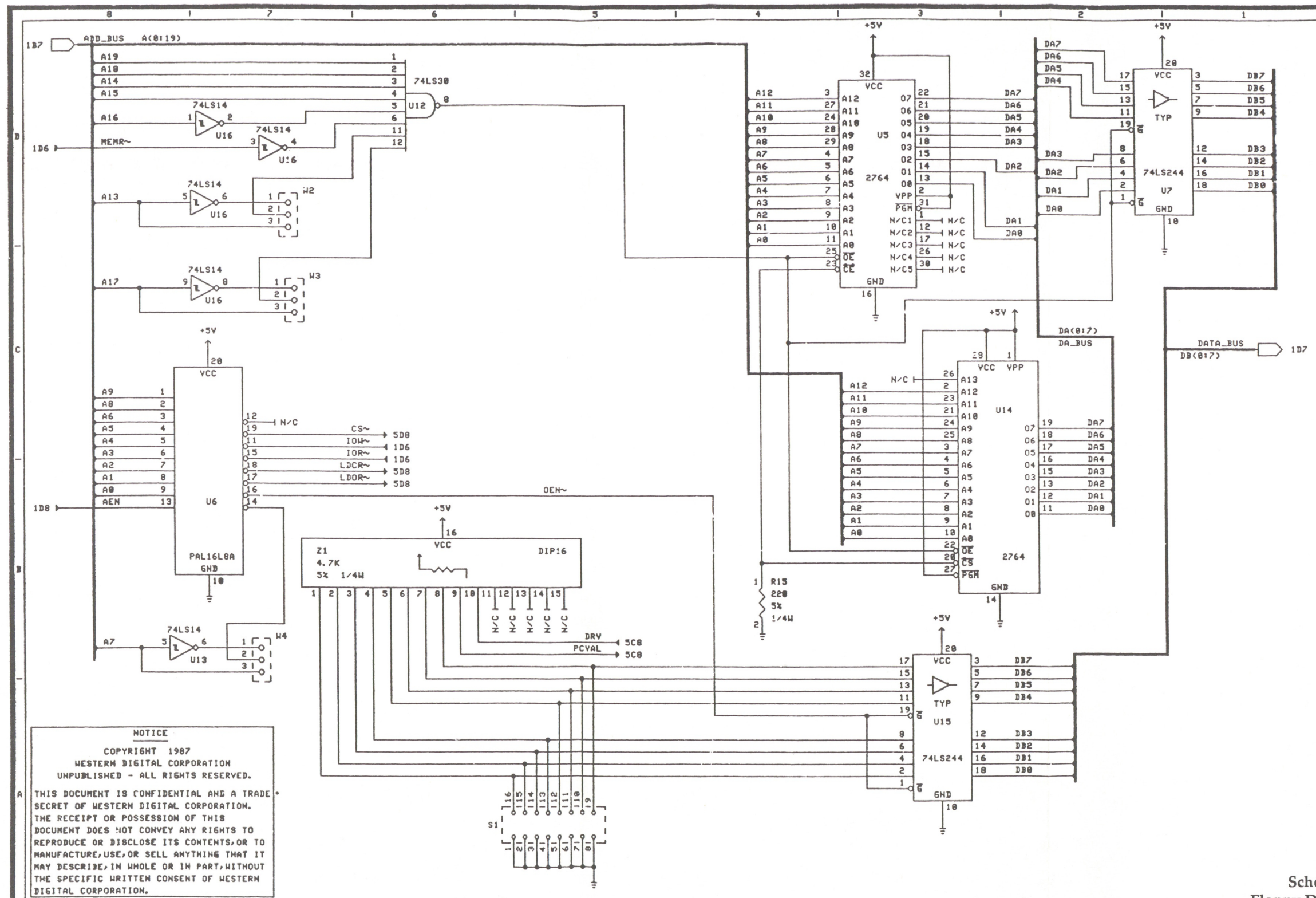
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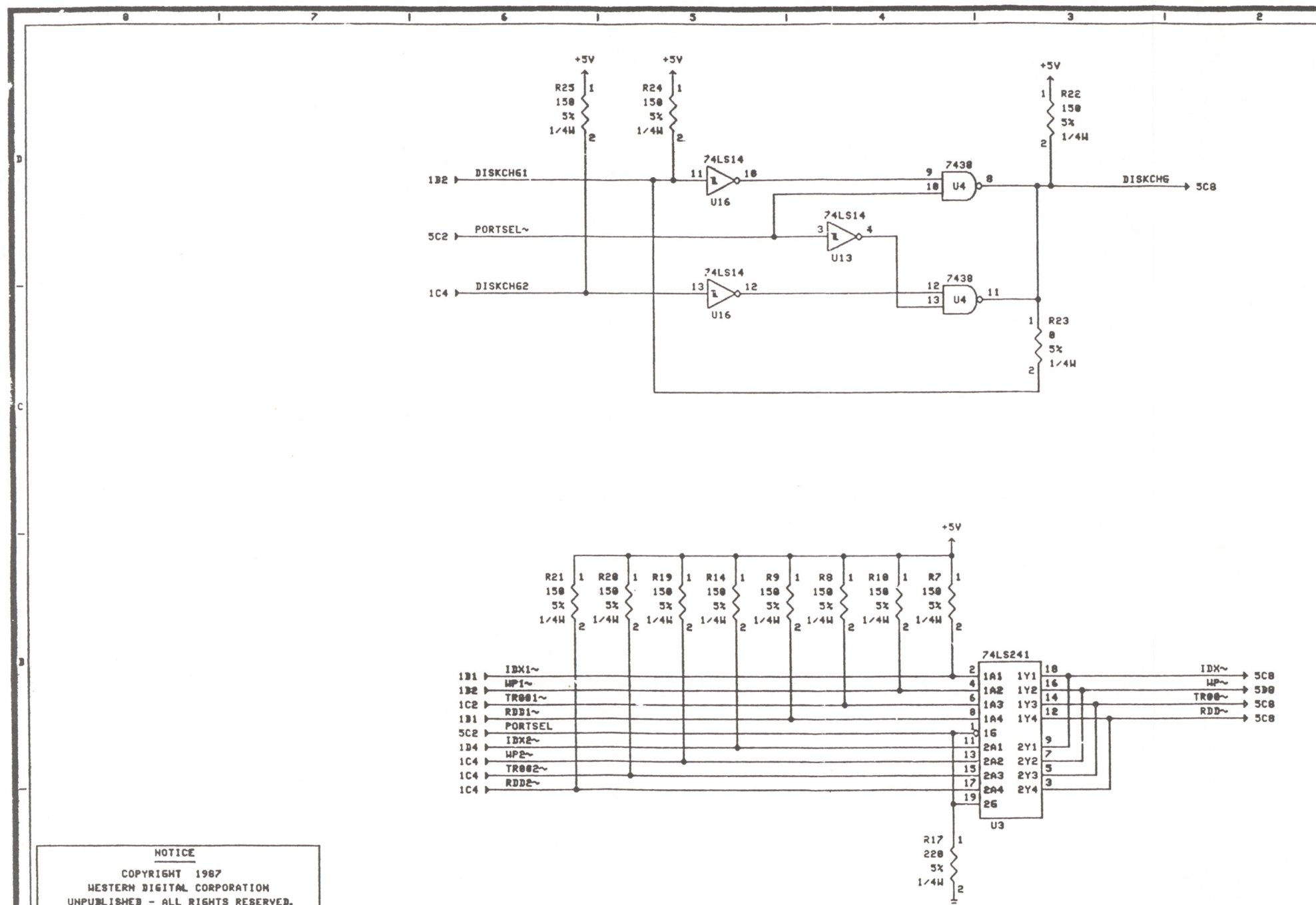
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Schematic No. 688878X8.  
Floppy Drive Controller PWA  
(Western Digital Corp.)  
(Sheet 2 of 5)







Schematic No. 688878X8.  
 Floppy Drive Controller PWA  
 (Western Digital Corp.)  
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